



# UNIVERSAL DECIMAL CLASSIFICATION



Prepared by the B.S.I. under the auspices of the International Commission on Decimal Classification of the International Federation for Documentation, and with the concurrence of the Education Foundation, Lake Placid Club, New York.



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## FOREWORD

THE English edition of the Universal Decimal Classification is being prepared and published by the British Standards Institution at the joint request of the British Society for International Bibliography and the Association of Special Libraries and Information Bureaux, and has the approval of the Educational Foundation, Lake Placid Club, New York, the publishers of the Dewey Decimal Classification. The Universal Decimal Classification is an extension of the Dewey Decimal Classification, and has been prepared for use in classifying original articles in periodical literature and documents of all kinds.

The present work is an abridgment of the Universal Decimal Classification and has been prepared, in response to a widespread demand, as an introduction to the use of the full schedules and as a manual for classifying books in libraries, for which the full schedules are unduly subdivided. It is based on the official abridgment in the Dutch language, fifth edition (F.I.D. Publication, No. 217), with the help of the abridgment published in English by H.M. Stationery Office, under the title "Classification for Works in Pure and Applied Science in the Science Museum Library," third edition. The latter document was concerned mainly with the sciences, but the present work covers the whole field of knowledge.

The technical work of editing the tables has been carried out by a large number of specialists, too numerous to mention, without whose help the edition could not have been prepared, and to whom the British Standards Institution takes this opportunity of expressing its indebtedness.

It is hoped that users will find this abridgment of use in the classification of documents in their libraries, as well as a guide to the consultation of the full tables.\* It will be noticed that a few subdivisions may not be as fully developed or as up to date as modern library needs may require. Thorough revision in this respect would have entailed considerable delay in publication. In view of the pressing demand, it has been thought better to publish the abridgment in its present state; and to wait for users' criticisms, which it is hoped to incorporate in a new edition in due course. The British Standards Institution would be grateful for any such suggestions that may occur to readers.

*November 1947.*

\* In this edition only a short alphabetical index is included. A more complete one will be published later as a supplementary volume.



## Introduction to English Abridged Edition

### HISTORY

The idea of arranging literature and references to it through the use of a subject classification with a decimal notation and an alphabetical index to the numbered classes was conceived by Melvil Dewey, then librarian of Amherst College Library, Amherst, Mass., U.S.A. Years of study had convinced him that the usefulness of libraries could be much increased, without additional expense, by the adoption of a properly developed subject classification, by means of which the users of the libraries could ascertain what documents had been collected on the subjects that they wished to study. The Dewey "Decimal Classification and Relative Index" was first put into operation in Amherst College Library in 1873. The classification was submitted as the thesis for his Master's Degree in 1875, and first published in 1876. Subsequently, Melvil Dewey became librarian to Columbia College Library and afterwards to New York State Library. The first edition of the classification comprised only twenty-four pages, of which half were devoted to the index. The value of the classification was soon realized and its use rapidly extended into every corner of the United States. New editions were frequently required, each more extended than the previous one, and now the current fourteenth edition, dated 1942, comprises 1,929 pages and 1 plate, a portrait of its celebrated author.

As the result of the first International Conference on Bibliography, held in Brussels in 1895, the International Institute for Bibliography (I.I.B.)\* was founded to promote the organization of a comprehensive subject index to the accumulating records of intellectual achievement. It was resolved to use the Dewey classification as the basis of the subject index, and an agreement was concluded between Dewey and the I.I.B. to extend the Dewey classification for this purpose. At that time the fifth American edition had appeared, and this still comprised only a few thousand subdivisions. The first task of the I.I.B. was to elaborate the classification in sufficient detail. As this was a considerable piece of work, publication took place in parts. The first complete international edition was published in 1905, and was given the title "Manuel du Repertoire Bibliographique Universel" because it served, in the main, as an index to the great card subject index to documents, which was then being maintained in Brussels. The new schedules comprised some 33,000 subdivisions with an alphabetical index of 38,000 entries.

In following years the schedules were slowly extended. In 1912 a supplement appeared, of a thousand or more subdivisions. The world war of 1914-18 interrupted the activity of the I.I.B. and international contact was only re-established in 1920. In 1923 an international commission for re-organization was set up, which in 1924 established its Secretariat at Deventer in Holland, and which was transferred, subsequently, to The Hague, Willem Witsenplein, 6.

A new edition, the second international edition, with the title "Classification Decimale Universelle," was published

during the period 1927-33. The chief editorship of the section devoted to the humanities was vested in MM. P. Otlet and H. La Fontaine, and the pure and applied science section was edited by Ir. F. Donker Duyvis. In all, about forty specialists collaborated in the preparation of the detailed subdivisions.

This new edition, with some 70,000 subdivisions, formed the basis for further collaboration which was then organized by the International Commission for Universal Classification of the I.I.B. On these lines the classification has expanded to more than 100,000 subdivisions.

In 1933 the third edition of the Universal Decimal Classification was undertaken in German. The fourth edition in English was begun in 1936, and in 1939 the fifth edition, once again in French, was commenced.

The parts of the German edition, so far published, comprise the sections 0/5 and 63/66. So far, the English edition comprises sections 0, 5, and 621.3. Of the French fifth edition the sections 0, 2, 3, 61, 62 and 65 have appeared.

Besides these editions of the full schedules, abridged editions have been published in Czech, Dutch, English, Italian, Norwegian, Polish, Roumanian, Russian and Spanish. In addition various selected or abridged schedules, for use in specialist fields, have appeared in different languages.

### PRINCIPLES

The principles of the Universal Decimal Classification are of three kinds:

In the first place, it attempts to be a **CLASSIFICATION** in the strict sense of the word, and in this sense to group similar ideas in their special aspects. In contrast, for example, to an alphabetical arrangement of subjects, it aims at bringing together related concepts and groups of concepts. Classification, which had originally been based exclusively upon an arbitrary systematization of knowledge now operates in the Universal Decimal Classification according to an analysis of ideas (see pp. 109-10).

In the second place, it is fundamental that the classification is **UNIVERSAL**, that is to say, it sets out to include every subject of human knowledge, and to group these subjects from every point of view. In this respect, universal classification stands in contrast to individual classification, the latter being developed from the idea that a specific specialized subject can be shut away into a rounded-off whole, effectively separated from other specialized subjects. With universal classification, each specialist may relate his special subject to any branch of human thought, and nothing in the nature of "closed" specialist fields is admitted. Its universal character allows for the classification of individual ideas from different points of view. One specialist will not regard a specific subject from the same aspect as another specialist. By means of a system of general analytical and mutually combinable numbers with special symbols, denoting different commonly occurring points of view, the Universal Decimal Classification makes it possible to express arbitrary combinations of such general points of view with specific concepts.

Furthermore, ideas compounded of two or more single concepts are expressed by compound classification numbers

\* The name was changed to International Institute of Documentation in 1931. The headquarters were transferred to The Hague. In 1937, following a recommendation of the World Congress on Universal Documentation held in Paris, the Institute became the International Federation for Documentation (F.I.D.).

built up of the individual numbers denoting these single concepts. Index entries are filed for each of these numbers, so that it is easy to locate the data corresponding to each point of view, regardless of the subjective point of view of the classifier.

In the third place, it is a DECIMAL classification. The whole of human knowledge is divided into ten groups, each of these groups being divided afresh by the addition of more decimal places. Contrary to a misconception of the Universal Decimal Classification often held, this principle is placed third in importance. The fact that Arabic numerals are used as classification symbols, which look like decimal fractions, has certain technical advantages in that it permits the intercalation of new subdivisions at any point, and facilitates the learning by heart of the symbols. Similar advantages are, of course, obtainable with other systems of symbols. It should further be observed that the decimal character in no sense implies that the systematic division of a class occurs in tens.

### STRUCTURE

As explained above, the structure of the Universal Decimal Classification is based on a decimal system.

The ten main sections of the subdivisions, described below as "Main Numbers," run as follows:

- 0 Generalities
- 1 Philosophy. Psychology
- 2 Religion. Theology
- 3 Social sciences. Law. Education
- 4 Philology
- 5 Natural sciences
- 6 Applied science. Medicine. Technology
- 7 Arts. Entertainment. Sport
- 8 Literature
- 9 Geography. Biography. History

These main sections are further subdivided decimally as, for example:

- |            |   |
|------------|---|
| 6          | Applied science                                     |
| 63         | Agriculture. Forestry. Stockbreeding.               |
|            | Animal produce. Hunting. Fishing                    |
| 631        | Agriculture in general. Agronomy                    |
| 631.8      | Fertilizers   |
| 631.81     | Nature. Use   |
| 631.816    | Mode of application                                 |
| 631.816.1  | Preparation. Necessary quantity                     |
| 631.816.12 | Necessary quantity for the maintenance of fertility |

All the main classes, 0/9, do not necessarily split up into 10 subsections; on the contrary, scientific division of a class requires, as a rule, less than 10 subsections. For example, in the main section, 5, pure science, the subsidiary ideas are denoted progressively by varying numbers of digits, so that certain places, or numbers, can be reserved for new subsidiary ideas that may later be required.

In branches of knowledge for which logical systems of classification are as yet less advanced, it happens frequently that an arbitrary classification into more than 10 subclasses seems to be desirable. In such cases classification is brought about by using under a main heading (not under a single-figure main heading) perhaps two significant figures. In this manner we are able to arrange, if necessary, a hundred equivalent subdivisions (so-called centesimal classification). Such classification is applied, for example, in Botany 58.

From the above it is evident that the length of a decimal symbol is not necessarily the measure of the importance of a given idea.

The Universal Decimal Classification comprises two kinds of numbers, namely:

(a) **Main Numbers** which express the main ideas and their subdivisions. These consist of one of the numerals 0 to 9 and subdivisions thereof, e.g. 548 Crystallography. And

(b) **Auxiliary Numbers** which are characterized by the inclusion of non-numerical symbols and serve to express the finer definition of an idea as regards point of view, place, time, form, language, etc. See summary and explanation on pp. 108 et seq.

The main numbers may be combined mutually into compound decimal numbers and may be further combined with the auxiliary numbers by simply adding these. Thus we get **Compound Decimal Numbers** which relate to:

(a) Compound ideas (e.g. the economic situation of the rubber industry). And

(b) Related specific ideas (e.g. bicycle-brakes).

**Compound Ideas** are expressed by joining two decimal numbers by means of connecting symbols, that is to say, by means of the symbol + (plus), e.g. 4+8 (Philology and Belles lettres); the symbol / (stroke), meaning up to and including, e.g. 675/677 (Leather industry up to and including the Textile industry); and by the symbol : (colon) meaning in relation to, e.g. 676 : 677 (The Paper industry in relation to the Textile industry).

**Related Specific Ideas** can be brought into conjunction by making use of the common and special auxiliary numbers. Use is made of the common and special auxiliary numbers only when there is no main number available, which expresses exactly the main idea to be classified.

Parentheses ( ) and brackets [ ], inverted commas " ", equals =, the figure .0 and the hyphen - are used as symbols for distinguishing the auxiliary numbers. For further explanation of the auxiliary numbers, and, in particular, for the preferable avoidance of their use, see p. 109.

Finally, it should be noted that the punctuation has no significance in designating an idea; it serves solely to facilitate reading the numbers.

### THE U.D.C. AND THE PHILOSOPHICAL CLASSIFICATION OF KNOWLEDGE

The Universal Decimal Classification does not pretend to provide a philosophical classification of knowledge. The aim of the classification is to make possible the grouping together of references to literature on related subjects so as to facilitate the finding of the literature. For this purpose, the ideal arrangement of the great specialist fields of knowledge is of less practical importance than a reasonably detailed classification to meet scientific requirements.

Nevertheless, if only from the historical standpoint, it is of interest to know how Dewey built up his system at the time. He placed in group 0 **Generalities** relating to documentation and bibliography before passing on to the actual classification of knowledge. Consistently with current systems of classifying the subjects of human knowledge, Dewey's starting-point was critical speculative thought, so that group 1 was **Philosophy**. The individual mind, itself not yet engrossed in the multiplicity of phenomena but concentrated upon the all-embracing, comes next to **Religion** (group 2) wherein Dewey begins with the doctrine of God and religion to end up with grouping men into ecclesiastical communities and religious sects. Consequently in the first two groups we find, as it were, a transition from the individual conception to the collective conception, a transition which assumes a more concrete form in group 3, where the sciences of human relationship, the **Social Sciences**, are found. These include first general description and speculation, *Statistics*, and the formation of political relationships, *Political Science*, economic collaboration, *Economics*. Then, coming to more concrete ideas, the original main divisions of this group 3 begin to resolve into order: *Law*, *Administration*, *Social Welfare*, *Education*, *Commerce*, and lastly, the detailed description of *Habits and Customs*. Next, the community which collects and builds up its knowledge makes use of **Language** (group 4), or word-science, which, of the sciences properly so-called, is the primary one. Then follows first **Pure Science**, which is elaborated in group 5.

Here from the *Mathematical Sciences*, by way of inanimate nature, *Astronomy*, *Physics*, *Chemistry*, and *Geology*, Dewey comes to the *Biological Sciences*. The Pure Sciences lead to the *Applied Sciences* (group 6) with *Medical and Allied Sciences*, the first group worked out to follow the biological sciences. The remaining applied sciences in group 6 are then the technical sciences, where the *General Engineering Sciences* come first, and, in particular, first of all, the application of the various sources of energy are included: *Mechanical and Muscular Energy*. This explains the position of *Electrical Engineering*, which has so often given rise to misunderstanding. After the more or less abstract class *Engineering Sciences* (group 62) there follows applications to the *Agricultural Industries* (group 63), to the activities of the private household, *Domestic Economy* (group 64), to the organization of *Commerce*, business and *Communications* (group 65). The industry of communications is here developed in the widest sense, and thus includes communication by word of mouth, by document, by signal, etc., so that we find here *Printing and Publishing* as well as the organization of *Signalling*, *Telegraphy*, *Telephony*, and *Radio Communication*, *Railway Transport*, etc. In sequence, general industrial sciences follow, e.g. the application of technology to specific raw materials and their manufacture into simple materials, *Chemical Technology*, *Metallurgy* (group 66), the manufacture of raw materials into simple materials or articles of one single material, *Manufactures* (group 67), the manufacture into articles of several materials, *Mechanical Trades* (group 68), and lastly, the fabrication of complete structures, the *Building Industry* (group 69). Finally, Dewey connects to objective applied sciences the subjective artistic element, and thus group 7 comprises the *Applied and Pure Fine Arts*, where first *Building Construction* and *Architecture* connect with the *Building Industry* (group 69). The development in group 7 is meant to run from what is closely connected with technology to what is most remote from it, and arrives in this way at *Literature* (group 8). Finally, in group 9 Dewey has introduced the space and time features *Geography*, *Biography* and *History*, in which all the foregoing subjects of knowledge are included.

It will be seen that this arrangement is sufficiently logical. As has been said, the actual order of the main groups is of small importance. The above synopsis serves merely to remove some slight misunderstandings, for instance, that this Dewey classification has been derived from Francis Bacon's classification of knowledge.

What is of more real interest to scientific classification is that the original Dewey classification was not in fact universal, because it lacked the apparatus for combining the symbols, and thus the possibility of regrouping classes according to specific viewpoints. In the original classification, the subdivision was mainly teleological, that is to say, subdivision according to purpose. For example, because oil was formerly used almost exclusively for illumination, oils were classified in the chapter on illumination. The rule now followed is that, in each case substances, raw materials, and products are first classified according to origin. Their grouping according to purpose can then be made by combining their classification symbols with those specifying the purpose in view, or, possibly, with symbols denoting some special, singular, separate aspect of the application, in case such application is so extensive that for it singular, separate designation is justified.

Sometimes, classification from the point of view of application leads to the same thing being found in different places in the Universal Decimal Classification, though every time from some different point of view. Now, in the simple application of the Universal Decimal Classification this can be inconvenient, if it is required, above all things, to give a thing only one classification symbol, irrespective of its various viewpoints. In such a case we have, therefore, to select one classification setting for the thing concerned. If for our purpose no special preference exists for any specific

point of view, we select the classification number which occurs first in the decimal sequence. Thus, if we want to bring together everything about the substance "radium," we select the number 546.432, under which radium comes first in the tables.

## REVISION OF THE U.D.C.

It is obvious that in so extensive a work as the Universal Decimal Classification, which now comprises more than 100,000 subdivisions, correction and amplification is continually needed. Correction is required not only on the ground of inaccuracy, of which the compilers of the Universal Decimal Classification may have been guilty, but also on the ground that the sciences themselves retain certain erroneous conceptions which gradually give place to more correct ones. So long as such erroneous ideas in specific specialist fields are still in use, the classification must keep them in mind, because publications may arise concerning such conceptions and require to be classified.

The revision of the Universal Decimal Classification is undertaken by an International Commission consisting of representatives of a number of national and international organizations. Proposals for revision are collected by the Commission at The Hague, and after critical examination are despatched thence, in the form of so-called PE notes (Projets d'extensions), to a large number of experts, with the request that criticisms may be received within four months. The proposals are amended on the basis of incoming criticism and are finally established by the Commission. In this way, a complete manuscript of the Universal Decimal Classification is made at The Hague on the authority of which the successive editions of the Universal Decimal Classification in various languages are published.

The following procedure is recommended:

(1) A proposal for extension or correction should in the first instance be sent to the national secretariat in the country in which the proposal originates, and, if possible, it should be scrutinized by the national committee of the Universal Decimal Classification in that country.\* The proposal should be accompanied by an explanatory statement by its author.

(2) The proposal is then sent by the national committee to the general secretariat at The Hague, which may advise revision of the proposal, but distributes the proposal, even if its advice is not followed.

(3) The proposals are circulated to the members of the International Commission of the Universal Decimal Classification and to all those who receive the PE notes. If the proposals are in any way revolutionary in nature and the Secretary of the Classification Commission judges that discussion in a plenary committee meeting is desirable, the proposals are sent out as PP notes (Projets provisoires).

(4) After the aforesaid term of four months a Central Classification Committee (C.C.C.) of the International Commission, composed of members concerned with the preparation of complete editions of the U.D.C., submits the proposals to a final scrutiny, and if the C.C.C. does not see any objection to any proposal, it is considered as accepted. If, however, they consider the proposal unsuitable, or if objections have arisen and the proposal has not been withdrawn by the author, the proposal is reissued as a PP note.

In the revision of the Classification, the rule obtains that the significance of existing decimal numbers may be extended or restricted, but may not be completely altered. If a subdivision of the classification is obviously quite obsolete, then this subdivision can be neglected and a new classification of the special field concerned can be developed under a new "free" number. The old classification number thus gradually "expires," but the old number may not be used for a new meaning. Thus users of the old classification cannot become confused. As the Universal Decimal

\* For Great Britain, 28 Victoria Street, London, S.W.1.

Classification still contains a surplus of "free" numbers, the "expiration system" can be applied without objection.

Indeed, plans were once made for a complete revision of the Universal Decimal Classification. However, so great a revision, which would have amounted substantially to a regrouping of the principal sciences as well as certain simplifications in the use of the classification symbols, seemed, for the time being, unnecessary in practice because, as has been said, for practical documentary work the actual sequence of the principal sciences is of little importance.

#### ADVANTAGES OF THE U.D.C.

For documentation centres, as well as for public and private collections of bibliographical data and records, and in various cases also for libraries and museums, a standardized classification is recommended, especially for international collaboration. The Universal Decimal Classification satisfies these demands in that all documents about a specific subject, so classified, in whatever language they are described, are found under the same number. For example:

648.525	—vacuum cleaner
	—Staubsauger
	—dammsugaron
	—aspirateur
	—aspirators di polvero
	—aspirador de polvo
	—Пылесос
—odkurzac	

It follows that a card index-system, classified according to the decimal system, is accessible to everybody, independently of the language of the entries.

A purpose for which the Universal Decimal Classification is essential is to bring about the needed co-operation of many bibliographers, and make the references they produce fit together into a comprehensive subject index to recorded information.

In general, standardization has in view the abolition of needless diversity, and is in this respect of particular value if exchangeability of references is required. Thus, if different services or institutions have to exchange classified data, standardization of classification secures that the self-same data do not have to be classified afresh.

If change of staff takes place, and the necessity arises for educating a new staff, previous experience with a standard classification makes it possible to work in the new staff rapidly. Control of the collection of classified data is also simplified in operation when the system is known in advance, and the various collections under control are classified by this same system.

A standardized classification is of advantage, not only for the mutual exchange of data, but also for making use of material which has been previously classified. Supposing that an outside bibliographical institution in the field of photography wishes to keep up to date, then it can cut out the bibliographical references from, e.g. "Photographic Abstracts" which bear the appropriate Universal Decimal Classification numbers, and insert the references in a card index, without having to carry out the work of classification itself, a task occupying a considerable time.

Other advantages of the Universal Decimal Classification arise directly from its universal character. When a specialist is drawing up a detailed classification for the arrangement of documents in his special field, the Universal Decimal Classification will be found to work smoothly. Furthermore, it is likely that, by its use, the specialist will be drawn into more proper relation with neighbouring fields than otherwise. In proportion, as particular specialized fields display more coherence and relation to one another, and that is charac-

teristic of the contemporary trend of science, so will the specialist have to pay more attention to allied fields. It is just these allied fields which so often cause deadlock in an "individual classification." What used to be collected under the heading "various" grew in an alarming fashion, and eventually carried more than the original logically extended systematic part of the "Individual classification." It is characteristic of the Universal Decimal Classification that headings labelled "various" are seldom necessary. In this voluminous classification, built up and kept up to date continually with the help of some hundreds of skilled professional workers, practically every object of human interest finds a place. In consequence, we find in practice that "deadlocks" do not obstruct an organization using the Universal Decimal Classification. It is exactly on this ground that great institutions, which have to arrange a considerable quantity of documentary material, have abandoned "Individual classification" in favour of the Universal Decimal Classification, although they may have no special interest in the exchange of data.

Of lesser advantage, it may be mentioned that Arabic numerals are easy to remember. For that reason, decimal symbols offer mnemonic advantages over symbols made up of combinations of letters and Arabic or Roman numerals.

#### GENERAL CLASSIFICATION HINTS

No specific directions for the application of the Universal Decimal Classification can be given. Classification is in itself an art, requiring knowledge not only of the classification but also, above all, of the matter to be classified.

Moreover, it is necessary always to keep in mind that the aim is not merely to specify the contents of a document, but to be able to produce it as quickly as possible when required. Thus the classifier should continually ask himself, what are the needs of those for whom he is doing the work, and what will, presently, have to be looked for and where.

In classifying we should avoid working from the title of a document, but should ascertain its actual contents. We should also avoid excessively detailed subdivision. All that matters is that the number of references bearing the same classification number shall not become too large.

On the other hand, we should not hesitate to bring a self-contained topic under more than one classification heading, if that topic happens to be considered from different aspects.

In case of doubt, the general rule is to select the number which comes first in the decimal sequence. Also, for preference, we should bring together studies on a self-contained subject, summed up from different viewpoints, under the decimal classification number coming first in sequence, when no other choice is obvious. For safety's sake, in doubtful cases, we may use two or more numbers. In preparing a card index of the entries, we should make as many cards as correspond to the total number of classification numbers used. The number, under which the card is to be inserted, should then be indicated in each case by underlining.

At first, frequent use will be made of the alphabetical index. More legitimately, this serves exclusively to indicate the various places in which an idea occurs, and in a given case, we should never omit to keep an eye on the systematic schedules to see whether the number found in the alphabetical index is justified systematically.

In the use of the auxiliary numbers, we should read the introductory remarks on pp. 108-9.

#### APPLICATION

The original Dewey scheme, as subsequently enlarged, has already been applied in about 19,000 American libraries. The complete international edition of the decimal classification, the Universal Decimal Classification, has in view primarily its application to the documentation field and to

the field of administration, although application to library cataloguing has also been provided for. As regards documentary application, this Classification has, in practice, clearly found acceptance, especially for bibliographies in technical and natural science. It is noteworthy that the three great technical bibliographical centres, viz. the Science Library in London, the Engineering Sciences Library in New York, and the Verein Deutscher Ingenieure in Berlin, have accepted the Universal Decimal Classification. The principal large electrical manufacturing firms in the world have all adopted the Universal Decimal Classification for one or more of their documentary departments. Further, the natural science card index system of the Concilium Biographicum is well known. Furthermore, the Universal

Decimal Classification is applied to administrative files particularly in Holland, in various private and professional institutions, and by some 700 local authorities. For its application to administration we should consult in particular the observations on the regrouping of decimal numbers according to special viewpoints in the introduction to the use of the auxiliary numbers and symbols (p. 110).

#### EXAMPLE OF SUBDIVISION

The example on the following page shows the subdivision of one of the groups, group 6, Applied Science, through section 621, Mechanical and electrical engineering, to the fifth decimal place.

Generalities 0 Bibliography Libraries, etc.	Philosophy 1 Ethics Psychology	2 Religion Theology	3 Social sciences Law	4 Philology Linguistics	5 Pure sciences	6 Applied sciences (Medicine, Technology)	60 General considerations	620 General questions Materials	621 0 General questions	.01 Mechanical engineering in general .03 Physical technology. Technical physics .08 Prime movers. Spring and weight motors
							61 Medicine	621 Mechanical and Electrical engineering	621.1 Steam engines Boilers Steam engineering	.11 Steam engines (land engines) in general .12 Ships' steam engines .13 Steam locomotives .14 Road locomotives. Steam tractors .15 Semi-portable steam engines .16 Stationary steam engines .17 Working of steam plants. Condensation. Water cooling. Explosions .18 Boilers, tubes, etc.
							62 Engineering sciences	622 Mining	621.2 Water power Hydraulic machines	.21 Waterwheels .24 Hydraulic turbines .25 Hydraulic pressure machinery. Pressure pumps, accumulators .26 Hydraulic presses .27 Hydraulic rams .28 Other applications of hydraulic energy
							63 Agriculture Forestry Stockbreeding Animal produce Hunting Fishing	623 Military engineering	621.3 Electrical engineering	.31 General electrical engineering .32 Electric lighting. Lamp bulb manufacture .33 Electric traction .34 Electric drives other than traction .35 Technical electrochemistry .36 Thermo-electricity and electrical heat generation .38 Various scientific apparatus. Discharge tubes .39 Telecommunication
							64 Domestic economy	624 Civil engineering sciences (General)	621.4 Internal combustion engines and other special motors	.41 Hot air engines .43 Internal combustion engines and explosion motors .44 Engines using vapour mixtures .47 Solar machines
							65 Commercial sciences Organization	625 Road and rail engineering	621.5 Pneumatic machines Refrigeration technique	.51 Compression of air and gases. Compressors .52 Rarefaction of air and gases. Air pumps. Vacuum pumps .53 Conduction and distribution of condensed and rarefied air and gases .54 Application of condensed and rarefied air. Air pressure motors. Wind motors. Pneumatic tools .56 Refrigeration technique in general. Refrigerators. Refrigerating materials .57 Refrigerating machines .58 Ice manufacture .59 Apparatus for production of intense cold and for liquefaction of gases. Containers. Cylinders for oxygen, hydrogen, etc.
							66 Chemical technology	626 Hydraulics Waterways	621.6 Ventilators and Pumps Pipes	.61 Blowing mechanisms in general. Bellows. Simple ventilators .63 Centrifugal ventilators. Exhausters .64 Means of transporting gases and fluids in general. Pipes .65 Pumps with reciprocating pistons. Membrane pumps .66 Pumps with rotary pistons .67 Centrifugal pumps. Screw pumps. Turbine pumps .68 Special pumps. Measuring pumps. Separator pumps .69 Apparatus for direct working of gas or steam. Pulsometers. Injectors. Ejectors.
							67 Various industries for manufacturing simple materials	627 Watercourses Harbours Marine works	621.7 Workshops Factories Individual processes	.71 Research departments. Drawing offices .72 Making of models. Pattern making .73 Forges. Heavy and light forges. Smithery .74 Foundries. Moulding. Casting .75 Tools and machinery manufacture .77 Manufacture of materials of special form .78 Heat treatment of metals. (Hardening, tempering, annealing) .79 Various workshops and ways of processing material
							68 Various industries for manufacturing complex objects	628 Sanitary engineering	621.8 Machine parts Means of conveyance on the spot	.81 Elementary machine parts. Machine-elements .82 Shafting. Axles. Axle boxes. Bearings. Journals. Couplings. Cranks. Eccentrics. Driving-rods .83 Toothed parts. Gearing. Camwheels. Racks. Ratchets. Frictional wheels and discs .85 Flexible transmissions. Driving belts. Chains. Ropes .86 Means of lifting and removal, other than cranes and lifts .87 Lifting mechanisms .88 Means of attachment .89 Lubrication. Lubricants
							69 Building industry	629 Transport engineering	621.9 Machine tools Methods of manufacture	.91 Planing machines. Slotting machines. Filing and milling machines. Files .92 Polishing and grinding machines. Grinders. Crushers. Riddles. Sorters. Mixers .93 Saws. Cutting machines .94 Lathes. Rolling mills. Drawing machines. Drawing of wire and tubes .95 Drilling machines. Drilling mechanisms .96 Mechanisms and machines for punching, blanking, striking, splitting, cleaving, stamping, stapling .97 Mechanisms and machines for beating, hammering, forging, pressing, shaping, moulding, etc. .98 Machines for bending, folding, flanging, straightening, rolling out, etc. .99 Screw-cutting. Manufacture of screws

## OUTLINE OF THE MAIN DIVISIONS

### 0 GENERALITIES

- 00 Prolegomena. General fundamentals of knowledge and culture
- 01 Bibliography. Cataloguing
- 02 Libraries. Library economy
- 03 General encyclopaedias
- 04 Pamphlets, offprints, brochures and the like
- 05 Periodicals with general contents. Serial works. Reviews
- 06 Corporate bodies. Institutions. Societies. Congresses. Exhibitions. Museums
- 07 Newspapers. Journals. Journalism
- 08 Polygraphies. Collected works
- 09 Manuscripts. Rare and remarkable works. Curiosa

### 1 PHILOSOPHY. METAPHYSICS. PSYCHOLOGY. LOGIC. ETHICS

- 11 Metaphysics
- 13 Metaphysics of spirit life. Occultism
- 14 Philosophical systems. Metaphysico-ontological considerations and theories
- 15 Psychology
- 16 Logic. Theory of knowledge. Logical method
- 17 Ethics. Moral science

### 2 RELIGION. THEOLOGY

- 21 Natural theology
- 22 The Holy Bible. Holy Scripture
- 23 Dogmatic theology
- 24 The religious life. Practical theology
- 25 Pastoral theology
- 26 The Christian church
- 27 History of the Christian church
- 28 Christian churches, denominations and sects
- 29 The various religions. Comparative religion

### 3 SOCIAL SCIENCES. SOCIOLOGY. LAW. GOVERNMENT. EDUCATION

- 30 General sociology
- 31 Statistics
- 32 Politics
- 33 Political and social economy. Economics
- 34 Jurisprudence. Law. Legislation
- 35 Public administration. Government and organization, civil and military
- 36 Social welfare. Insurance
- 37 Education
- 38 Trade. Commerce. Communication and transport
- 39 Ethnography. Costumes. Customs. Folklore

### 4 PHILOLOGY. LANGUAGES

- 41 Philology and languages in general
- 42 Western languages in general. English
- 43 Germanic languages. German. Dutch, etc.
- 44 Romance languages in general. French
- 45 Italian. Roumanian, etc.
- 46 Spanish. Portuguese, etc.
- 47 Latin and Greek
- 48 Slavonic languages. Baltic languages
- 49 Various languages. Oriental languages

### 5 PURE SCIENCES

- 51 Mathematics
- 52 Astronomy. Geodesy
- 53 Physics
- 54 Chemistry. Crystallography. Mineralogy
- 55 Geology. Meteorology
- 56 Palaeontology
- 57 Biology. Anthropology
- 58 Botany
- 59 Zoology

### 6 APPLIED SCIENCES. MEDICINE. TECHNOLOGY

- 61 Medicine. Anatomy. Physiology. Pathology. Pharmacy
- 62 Engineering
- 63 Agriculture
- 64 Domestic economy
- 65 Commerce. Communications. Transport. Business organization. Printing. Publishing
- 66 Industrial chemistry. Chemical technology
- 67 Various industries and manufactures
- 68 Various industries, professions and crafts
- 69 Building industry. Building construction

### 7 FINE ARTS. APPLIED ARTS. ENTERTAINMENT. RECREATION. SPORT

- 71 Town and country planning. Garden and landscape architecture. Preservation
- 72 Architecture
- 73 Sculpture
- 74 Drawing. Decoration. Industrial art
- 75 Painting
- 76 Engraving. Etching
- 77 Photography
- 78 Music
- 79 Entertainment. Games. Sport

### 8 LITERATURE. BELLES LETTRES

- 80 Generalities. Rhetoric. Criticism
- 82 Literature of the Western countries in general. English literature
- 83 Germanic literature. German literature. Dutch literature
- 84 Romance literature. French literature
- 85 Italian literature. Roumanian literature
- 86 Spanish literature. Portuguese literature
- 87 Latin literature. Greek literature
- 88 Slavonic literature. Baltic literature
- 89 Various literatures. Oriental literature

### 9 GEOGRAPHY. BIOGRAPHY. HISTORY

- 91 Geography. Accounts of travels
- 92 Biography. Genealogy. Heraldry
- 93 History in general. Ancient history
- 94 Modern history. History of Europe
- 95 History of Asia
- 96 History of Africa
- 97 History of North America
- 98 History of South America
- 99 History of Oceania, of Australasia, of the Polar region

# 0 GENERALITIES

WORKS OF A GENERAL NATURE. WRITING. DOCUMENTATION. BIBLIOGRAPHY. LIBRARIES.  
INSTITUTIONS. DOCUMENTS AND PUBLICATIONS IN GENERAL

## 00 Prolegomena. General fundamentals of knowledge and culture

### 001 THE SCIENCES AND KNOWLEDGE IN GENERAL. *See also* 168; 389; 681.2

- .1 General conceptions. Definition of science. Limits of knowledge, etc.
- .2 Relations between the individual sciences. *See also* 001.8; 025.4; 168
- .3 Value, significance of science
- .4 Scientific nomenclature. Terminology. *See also* 003.62
- .5 Scientific theories, hypotheses and systems. *See also* 16
- .6 Scientific laws. *See also* 113; 51
- .8 General methodology. *See also* 168
- .81 Technique of intellectual work
- .83 Intellectual collaboration
- .89 Organization of science and of scientific work in general
- .9 Spread of knowledge. Pseudo-sciences

### 002 DOCUMENTATION. Generalities concerning compilation, sorting and methodical arrangement of documents. *See also* 01; 651.5; 655; 659.2

- .6 Documentation centres

### 003 WRITING

- .01 Origin
- .03 Relationship to speech. Transliteration. Phonetic script
- .08 Special characteristics. Accents, diacritics, etc.
- .2 Kinds of writing in general
- .23 Script with letters
- .24 Braille
- .25 Morse. *See also* 652.8
- .26 Secret writing. *See also* 652.8
- .3 Particular kinds of script
- .32 Ideographic scripts
- .322 Egyptian hieroglyphics
- .323 Cuneiform script
- .325 Hittite picture writing
- .33 Oriental alphabetic scripts
- .331 Origin of the alphabet
- .332 Semitic scripts
- .4 Hebrew and Canaanite scripts
- .5 Arabic scripts
- .336 Indian scripts
- .34 Occidental scripts
- .341 Greek
- .344 Latin
- .2 Kinds of script
- .29 Modern scripts
- .291 Handwriting
- .292 Type. *See also* 655
- .293 Special type, e.g. for job-work, advertisements, posters, etc.
- .294 Typewriter type
- .345 Runes
- .349 Slavonic scripts

- 003.35 Numerical notations. Greek, Roman, Arabic numerals
- .5 Writing materials
- .6 Other kinds of graphic representation of thought
- .62 Signs, notations, symbols. *Subdivide by sign of Relation* ; e.g. 003.62:52 Astronomical symbols
- .63 Diagrams

### 007 ACTIVITY AND ORGANIZATION IN GENERAL. Human work. *See also* 159.95; 65.01; 651; 658.5

### 008 CIVILIZATION. CULTURE. PROGRESS

### 009 THE HUMANITIES. THE "ARTS" IN GENERAL; e.g. 016:009 Bibliography of the humanities. *See also* 167/168

## 01 Bibliography. Book Catalogues

*See also* 002; 02; 025.3/.4; 09; 930.25.  
*Only works on bibliographical science and technique are classified under 01, subdivided as necessary by :011/019*

### 011/016 BIBLIOGRAPHIES

*Music catalogues are classified under 781.973; museum catalogues under 069.538*

- 011 Universal and general bibliographies
- 012 Bibliographies concerning one specific author, one specific institution or concerning specific separate works
- 013 Bibliographies of groups of authors of one country, or of a specific class. *Subdivide by Common Subdivisions of Place, Language, Date or Relation*
- 014 Bibliographies of works with peculiar characteristics
- .1 Bibliographies of anonymous or pseudonymous works
- .3 Lists of abstracts from periodicals or collections; e.g. 014.3:07 Lists of newspaper articles
- .5 Indexes of separate works, e.g. 014.5 Homer Iliad. Index of Homer's Iliad
- 015 Bibliographies according to place or country of publication of the works. National bibliographies. *See also* 013
- 016 Bibliographies concerning special subjects. Specialist bibliographies. *Subdivide by sign of Relation* :

### 017/019 CATALOGUES

- General collections only. *See also* 016
- 017 Library and book-trade catalogues in general. Systematic catalogues
- .091 Location catalogues



- 017.1 Catalogues of public libraries
- .11 Central catalogues, or catalogues common to several libraries
- .2 Catalogues of private libraries
- .3 Catalogues of book sales
- .4 Commercial catalogues of publishers, printers or booksellers
- .42 Catalogues of current stock
- .43 Catalogues of second-hand books
- 018 Alphabetical catalogues by author, title and subject. *See also* 012
  - .1 Of public libraries
  - .2 Of private libraries
  - .3 Of public book sales
  - .4 Book trade catalogues
- 019 Catalogues in dictionary form. Union catalogues. Other bibliographies and catalogues
  - .1 Of public libraries
  - .2 Of private libraries
  - .3 Of public book sales
  - .4 Book trade catalogues
  - .9 Special bibliographies and catalogues. Of a book review character

## 02 Libraries. Library Economy

- 021 TASK, UTILITY, CREATION, PROPAGANDA, DEVELOPMENT, FIELD AND MEANS OF EXISTENCE OF LIBRARIES
  - .8 Relations with public authorities. Legislation
- 022 LIBRARY BUILDINGS. *See also* 727.8
  - .1 Site. *See also* 711.5
  - .2 Building materials used. Protection from fire, etc.
  - .3 Planning in general
  - .4 Arrangement of storage and shelving
  - .5 Reading rooms. Rooms for study
  - .6 Premises for administration, for exhibitions, etc. Cloakrooms, garages, etc.
  - .7 Lighting. *See also* 628.9
  - .8 Heating and ventilation. *See also* 697
  - .9 Various auxiliary fixtures and fittings
- 023 MANAGEMENT. STAFF
- 024 USE OF THE LIBRARY. DIRECTIONS
  - .01 Regulations. Hours of opening. Conditions for borrowing
  - .6 Loan of books
  - .68 Loan between libraries
- 025 LIBRARY ADMINISTRATION
  - .1 Executive. General management
  - .2 Accessions
  - .3 Catalogue technique. *See also* 017/019
  - .31 Rules
  - .34 Various kinds of catalogue
  - .343 Systematic cataloguing
  - .4 Documentary classification
  - .45 The Universal Decimal Classification (U.D.C.)
  - .5 References. Information service
  - .6 Circulation, loan of works
  - .7 Binding and repair of books. *See also* 686.1
  - .8 Treatment of and placing of books. Shelving. *See also* 022.2
  - .85 Care of books. Protection against dust, gas, mice, etc.
  - .9 Upkeep of premises. Cleaning, etc.

## 026 TECHNICAL LIBRARIES. SPECIAL LIBRARIES. *Subdivide by sign of Relation :*

### 027 GENERAL LIBRARIES

- .081 Reference libraries
- .082 Lending libraries in the general sense
- .1 Private libraries
- .2 Libraries of societies, academics, clubs, institutions, etc.
- .3 Public paying libraries. Subscription libraries
- .4 Free public libraries
- .5 Government, municipal, etc., libraries
- .6 Libraries for specific groups of readers. Libraries attached to prisons, workshops, etc.
- .7 Libraries for secondary, higher and specialist educational establishments. University libraries
- .8 Libraries for elementary schools
- .9 Free access reading and newspaper rooms
- 028 READING. ADVICE FOR READERS. Bibliographical psychology. *See also* 374.2

## 03 Encyclopaedias. Dictionaries. Reference Books

- 030.1 General universal encyclopaedias
- .8 Dictionaries, vocabularies, etc.  
*This section for library use only. See also* 413

## 04 Mixed Collections of Essays. Pamphlets. Brochures. Offprints, etc.

*Subdivide like* (04) *See also* 06; 08

## 05 Periodicals. Reviews

- 050 *Subdivide like* 070
- 058 Yearbooks. Directories
  - .7 Address books. Lists of names. Professional lists. Directories. *See also* (058.7)
- 059 Almanacs. Kalendars. *See also* 264-1; 529.3/.5

## 06 Institutions. Associations. Congresses, etc.

- 06.0 *Special Auxiliary Numbers for the organization of associations and other institutions. These Special Auxiliary Subdivisions are applicable to 061 but not to 069*
  - .01 General character. Aim, rules, legal personality, etc.
  - .02 Members. Their duties and rights
  - .021 General questions. Roll of members
  - .03 Funds. Property
  - .04 The administrative body: Directorate. Committees. Board, etc.
  - .05 Activity of the corporate body in general
  - .053 Meetings
  - .055 Publications relating to work
  - .5 Annual reports

- 06.06 Exhibitions, competitions. Examinations. *See also* 061.4
- .07 Various activities. Processions, displays, excursions, dinners, etc.
- .08 Internal administration. *Subdivide like* 35.08
- .09 Other questions. Jubilees, etc.

## 061 Types of Institution ✓

- 061.1 Official institutions. Academies
- .2 Semi-official and private institutions. Societies. Public utility companies
- .3 Congresses. Conferences. Conventions. Assemblies, etc.
- .4 Exhibitions
- .41 Universal international exhibitions
- .49 Permanent exhibitions. *See also* 069
- .5 Business houses, firms, concerns
- .6 Research institutions
- .66 Information services
- .7 Festivities, solemn occasions, etc. Charity bazaars, race meetings, etc.

## 069 Museums. Museography. ✓ Museology

- 069.01 Theory. Museology properly so-called
- .1 Aim, utility. Educative character. Conducted visits. Lectures
- .2 Buildings and services in general. *See also* 727.6/.7
- .3 Furniture. Equipment
- .4 Methods of establishing collections. Preparation. Preservation. Cleaning. Repair
- .5 Collections. Objects exhibited. Explanatory matter
- .53 Technique of exhibition
- .538 Museum catalogues
- .6 Administration
- .7 Publications
- .8 Research

## 07 Newspapers. Journalism

- 070.1 Utility. Theories. Relations to other professions. Standards. Influence. Censorship. Government relations, etc.
- .2 Ownership and control
- .3 Business management. *Subdivide by* :331 and :65
- .4 Editorial management

## 08 Polygraphies. Collected works

*Subdivide like* (08)

- 081 Collected works of one individual author
- 082 Collected works of several authors. *Subdivide by Language and Date*

- 082.1 Sets of works; e.g. 082.1 Home Univ. "Home University Library"
- 087 Publications emanating from specific categories of authors and intended for specific categories of readers
- .2 Publications intended for specific categories of readers. *Subdivide by sign of Relation :*
- .3 Official and semi-official publications in the course of events of general interest. Blue books, etc. *See also* 061.1.055
- .5 Publications for children. *See also* (024.7); (075); 372.4; 398.2
- .61 Popular literature
- .62 Colportage literature
- 088 Miscellanies. *See also* 04 and 06

## 09 Manuscripts. Rare and ✓ Remarkable Works ✓

- 090.1 Bibliophily. Bibliopoly
- 091 MANUSCRIPTS  
*Subdivide by Language and Subject Matter*
- .0 Technical questions
- .1 Form of manuscript. Tablets, rolls, codices
- .3 Various kinds. Decorated, miniature, palimpsest
- .6 Printed works with manuscript notes in the handwriting of celebrated writers
- 092 XYLOGRAPHIC BOOKS. Prints from blocks.  
*Subdivide by Date*
- 093 INCUNABULA. EDITIONS EARLIER THAN 1500. *Subdivide by Date*
- 094 REMARKABLE (PRECIOUS, CURIOUS OR RARE) EDITIONS. Editions de luxe, first editions, etc.
- 095 BOOKS REMARKABLE FOR THEIR BINDING
- 096 BOOKS REMARKABLE FOR THEIR ILLUSTRATIONS OR FOR THE MATERIALS USED. *See also* 087.5; 7.04
- 097 EX LIBRIS. Marks of ownership or of origin, such as monograms, seals, etc.
- 098 VARIOUS WORKS REMARKABLE FOR THE NATURE OF THEIR CONTENT. Prohibited works. Enigmatic works, etc.
- 099 OTHER GROUPS OF BOOKS DISTINGUISHED BY OTHER SPECIAL CHARACTERISTICS (PRECIOSA, CURIOSA)

# 1 PHILOSOPHY

METAPHYSICS. PSYCHOLOGY. LOGIC. ETHICS. *See also* 21; 301; 34.01; 7.01; 93.01

- 1(091) **General history of Philosophy**  
 1(A/Z) **Individual philosophers**  
 101 **Nature, scope, etc., of philosophy**

## 11 Metaphysics. *See also* 21

- 111 **GENERAL METAPHYSICS. ONTOLOGY**  
 113/119 **COSMOLOGY. PHILOSOPHY OF NATURE.**  
*See also* 14  
 113 **General laws of nature.** *See also* 141.152/.153;  
 291.2  
 114 **Space.** *See also* 159.937.5  
 115 **Time.** *See also* 159.937.5  
 .4 **The notion of space-time.** *See also* 531.11  
 116 **Motion.** *See also* 159.937.5  
 117 **Matter.** *See also* 541  
 118 **Force. Energy.** *See also* 531.6; 536.7  
 119 **Quantity. Number**  
 122/129 **SPECIAL METAPHYSICS**  
 122 **Causality**  
 123 **Freedom and necessity.** *See also* 159.947;  
 234.9  
 124 **Teleology. Meaning, purpose, value, etc.** *See*  
*also* 001.8; 577.6; 612.012  
 125 **The infinite. The finite**  
 128 **The soul. Life and death**  
 129 **The origin and destiny of the individual soul.**  
**Incarnation. Reincarnation.** *See also* 218;  
 236  
 13 **PHILOSOPHY OF MIND. METAPHYSICS**  
**OF SPIRIT LIFE.** *See also* 159.9; 57; 576;  
 612.8  
 130.1 **General concepts and laws**  
 .2 **Philosophy of civilization. Systems. Cycles.**  
*Subdivide by sign of Relation : and especially*  
*with* 17; 2; 3; 34; 4; 6; 7; 93  
 .3 **Metaphysics of spirit life. Individual, objective,**  
**collective spirit**  
 133 **Occultism.** *See also* 125; 141.33; 366; 398;  
 612.8  
 .1 **Concept and nature of the occult**  
 .11 **Cosmic principles and hierarchies.** *See*  
*also* 133.9; 235; 398.4  
 .14 **Supersensual beings**  
 .18 **Esoteric chronicles**  
 .2 **Supersensual experience. The adept. Initia-**  
**tion. Spiritual training.** *See also* 159.913;  
 159.947; 398; 616.89  
 .3 **Occult perception. Clairvoyance. Clair-**  
**audience. Augury.** *See also* 159.961  
 .4 **Magic. Witchcraft. Theurgy.** *See also*  
 159.961

- 141 **KINDS OF SYSTEM**  
 141.1 **Systems relating to the number and quality of the**  
**principles**  
 .111 **Monism**  
 .112 **Dualism**  
 .113 **Pluralism**  
 .12 **Ontological materialism**  
 .13 **Metaphysical idealism**  
 .131 **Platonism. Neo-Platonism**  
 .132 **Universalism.** *See also* 165.63  
 .141 **Animism. Hylozoism. Panpsychism**  
 .142 **Voluntarism**  
 .143 **Alogism**  
 .144 **Monadism. Personalism**  
 .145 **Organicism**  
 .151 **Conditionalism**  
 .152 **Mechanicism**  
 .153 **Dynamism**  
 .154 **Energeticism**  
 .155 **Evolutionism**  
 .156 **Mobilism**  
 .157 **Finalism**  
 141.2 **Systems relating to judgment as to the value of**  
**the world**  
 .21 **Optimism.** *See also* 231.8  
 .22 **Pessimism**  
 .23 **Meliorism**  
 141.3 **Special and mixed forms**  
 .31 **Scholasticism**  
 .319 **Neo-scholasticism, etc.**  
 .33 **Philosophical mysticism**  
 .332 **Theosophy**  
 .333 **Anthroposophy**  
 .336 **Sufism**  
 .38 **Eclecticism. Syncretism**  
 141.4 **Systems in relation to the problem of God.**  
*See also* 211  
 .41 **Theism**  
 .411 **Polytheism**  
 .412 **Monotheism**  
 .42 **Deism**  
 .43 **Pantheism. Acosmism**  
 .44 **Panentheism**  
 .45 **Atheism**  
 141.5 **Systems relating to the point of view concerning**  
**the soul and free-will.** *See also* 159.9.01;  
 159.947; 171; 237.2

## 159.9 Psychology

*See also* 165; 343.95; 572.5; 612.8  
 616-05; 616.8

- 159.92 **MENTAL DEVELOPMENT AND CAPACITY. COMPARATIVE PSYCHOLOGY**
- .922 Mental characteristics
    - .1 Sex psychology
    - .2 As influenced by environment
    - .3 As influenced by heredity
    - .4 Race psychology
    - .6 As influenced by age
    - .7 Child psychology. Pedology
  - .923 Typology. Individual psychology. Idiosyncrasies. Temperaments. *See also* 159.97
  - .924 Genius
  - .925 Physiognomy
    - .5 Phrenology
    - .6 Graphology
    - .7 Chiromnomy. *See also* 133.6
  - .928 Different kinds of aptitude
    - .22 General intelligence
    - .23 Special capacity or aptitude
  - .929 Biopsychology. Plant and animal behaviour. Comparative psychology. *See also* 591.51

- 159.93 **SENSATION. SENSE PERCEPTION**
- .930 Theory
  - .931 Vision
  - .932 Hearing
  - .933 Smell
  - .934 Taste
  - .935 Touch. Feeling
  - .936 Muscular, articular and organic senses. Sense of equilibrium. *See also* 159.9.937.5
  - .937.5 Special classes of perception. Of space, extent. Of time, rhythm. Of movement. *See also* 114/116
  - .7 Synesthesia. Colour audition
  - .938 Psychophysics
    - .21 Laws
    - .22 Principal formulae
    - .25 General classes of measurements. Stimulus threshold. Difference threshold
  - .3 Psychometry. Psychochronometry. Psychophysiological reaction time

- 159.94 **EXECUTIVE FUNCTIONS**
- .942 Emotions. Sensibility
  - .943 Conation and movement. Motor functions. Action, drives, instincts
  - .944 Work and fatigue
  - .946 Special motor functions. Locomotion. Vocal expression. Graphic expression
  - .947 Volition. Will. Training of the will

- 159.95 **HIGHER MENTAL PROCESSES**
- .952.1 Conditions of selection
  - .2 Varieties of attention
  - .3 Physical reactions
  - .4 Clearness and strength of attention
  - .5 Scope and duration
  - .6 Acquired inattention
  - .953 Memory and learning. Mnemonic technique
  - .954 Imagination. Creative power. Imaginal apprehension
  - .955 Thinking. Conception. Judgment
  - .956 Intuition

- 159.96 **SPECIAL MENTAL CONDITIONS AND PSYCHIC PHENOMENA**
- .961 Psychical research. Parapsychology. *See also* 133

- 159.961.2 Hallucinations. Illusions. Apparitions. *See also* 133.2
- .6 Telepathy. Clairvoyance. Clairaudience.
- .7 Spiritualism. *See also* 133.3
- .962 Hypnotism. Suggestion. Auto-suggestion
- .963 Sleep and wakefulness. Dreams. Somnambulism. *See also* 612.82
- .2 Sleep. Wakefulness
- .3 Dreams. Visions. Dream interpretation
- .5 Somnambulism
- .6 Sleep talking
- .964 Depth psychology. Psychology of the unconscious
- .2 Psychoanalysis
- .3 Other types of depth psychology. Prince, Rivers, McDougall, etc.

## 159.97 **ABNORMAL PSYCHOLOGY**

## 159.98 **PSYCHOTECHNIQUE IN GENERAL**

# 16 **Logic. Theory of Knowledge. Logical Method**

*See also* 001.8; *Optionally it is permissible to combine 16 by means of the sign of Relation :* with 161.1; 161.2; 164; 165; 166; 168

- 161 **CONCEPT. JUDGMENT**
  - .1 Concept
  - .2 Judgment
- 162 **DEDUCTION. INDUCTION.** *See also* 166
- 163 **EVIDENCE. FAITH. MORAL CERTAINTY, ETC. ARGUMENT FROM AUTHORITY.** *See also* 165; 234.2
- 164 **LOGISTICS. LOGICAL CALCULATION**
- 165 **EPISTEMOLOGY. THEORY OF KNOWLEDGE. CRITERIOLOGY**
- 165.6/.8 **LOGICAL STANDPOINTS AND TRENDS**
  - .61 Irrationalism
  - .62 Phenomenology
  - .63 Rationalism. Intellectualism. *See also* 141.132
  - .64 Empiricism
  - .65 Criticism
  - .71 Dogmatism. Absolutism
  - .72 Scepticism
  - .73 Positivism. Agnosticism
  - .74 Pragmatism. Humanism. Philosophy of life. Biologism
  - .81 Subjectivism
  - .82 Realism
- 166 **REASONING. SYLLOGISM.** *See also* 159.955; 167
- 167 **SCIENTIFIC INQUIRY. HYPOTHESES. POSTULATES**
- 168 **SCIENTIFIC SYSTEMATIZATION.** *See also* 001.8; 025.45; 162; 167
  - .1 Definition
  - .2 Division. Classification. *See also* 025.4
  - .3 Demonstration

## 17 Ethics. Morality

*Combine as necessary by sign of Relation : with 2 and 14. See also 34; 343; 39*

- 171 **GENERAL ETHICS.** Moral conscience. Individual morality. Man's duty to mankind. *See also 159.947; 234.9; 347.44*
- 172 **SOCIAL ETHICS. SOCIAL MORALITY.** *See also 340.12*
  - .1 The individual and the State. Civic ethics. Patriotism. *See also 321; 342.2/.3*
  - .2 Duty of authorities and of public servants. *See also 351.9*
  - .3 Religion and the State. Liberty of conscience. *See also 261; 272; 322; 343.4; 348.7*
  - .4 International ethics. Peace and war. Pacifism. Internationalism. *See also 341*
- 173 **FAMILY ETHICS. DOMESTIC MORALS.** *See also 343.55; 347.62; 392.3*
- 174 **PROFESSIONAL ETHICS. BUSINESS MORALITY**
  - .8 Relations between employer and employed
- 175 **ETHICS AND RECREATION.** *See also 79*
- 176 **SEXUAL ETHICS.** *See also 173; 343.5*
  - .5 Prostitution. *See also 258; 351.76; 362.86*
  - .6 Adultery
  - .7 Ethics and art
  - .8 Ethics and literature. Pornography

- 177 **ETHICS AND SOCIAL INTERCOURSE.** Obligations to people in general. Courtesy. Probity, etc.
- 178 **MORALITY AND TEMPERANCE.** *See also 159.97; 331.84; 343.57; 613.3; 613.8; 616.8; 663*
  - .1 Alcoholism. Dipsomania
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- 18 **AESTHETICS.** *See also 7.01, 8.01*

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- 296 JEWISH RELIGION. ISRAELITE RELIGION. JUDAISM. TALMUD. MISCHNA

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| 297 <b>ISLAM. MOHAMMEDANISM</b><br>297:291.8 Koran<br><br>299 <b>VARIOUS RELIGIONS</b><br>.1     Aryan religions not mentioned under 293/295<br>.2     Different Semitic religions<br>.3     Ancient Egyptian religion<br>.5     Asiatic religions<br>.51    Chinese religions other than Buddhism<br>.512   Confucianism | 299.513   Taoism<br>.52   Japanese religions. Shintoism<br>.6   African religions<br>.7   Religions of North and Central America<br>(Indian, Aztec, Maya)<br>.8   Religion of South America (Incas)<br>.9   Various religions of Malayan and Polynesian<br>races<br>.99   Religions of pre-history and of different<br>primitive races |
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### 3 SOCIAL SCIENCES. SOCIOLOGY. LAW. GOVERNMENT

*See also* 172; 178; 571; 572; 614; 65; 930.1

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| 3-05 <b>Persons. Special Auxiliary Numbers</b><br>-053   According to age. Children. Adults<br>-055   According to sex<br>.1   Men | 3-055.2 <b>Women</b><br>-056   According to physical and mental qualities<br>-057   According to occupation<br>-058   According to social class |
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### 30 Sociology in General

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| 301 <b>Sociology in the narrower sense. <i>See also</i> 581.5;</b><br>591.5<br>.15    Sources and motives of social phenomena.<br>Socio-psychology. <i>See also</i> 159.9-052<br>.16    Social relations. Agreement. Conflict. De-<br>pendence<br>.17    Social processes. Group-formation<br>.18    Social form. Groups. Mass. Society. Friend-<br>ship, etc.<br>.19    Sociological systems, trends and schools<br>.191   Systems and trends in general | 301.192   Mechanistic<br>.193   Synthetic and geographical<br>.194   Biological<br>.195   Sociologist. Pure Sociologism (Durkheim,<br>etc.)<br>.196   Psychological<br><br>304 <b>The social question in general. <i>See also</i> 308 (.);</b><br>331; 335; 339.1<br><br>308 <b>Sociography. Social geography (Social surveys)</b> |
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### 31 Statistics

*Note: Subdivide according to subject by means of sign of relation : or geographically by (4/9) e.g.*

31:338   *Production statistics*  
31:339.4   *Consumption statistics*

31:382   *Statistics of foreign trade*  
31:382(42)   *Statistics of English foreign trade*

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|---|---|
| 311 <b>Statistical science. Theory and method of statistics.</b><br><i>For mathematics of statistics see</i> 519.2<br>.1    Fundamental statistical ideas<br>.11   Unit<br>.12   Group<br>.13   Sub-group<br>.14   Averages. Weights<br>.141   Index numbers<br>.15   Distribution. Standard deviation. Quartile<br>and percentile<br>.16   Correlation<br>.17   Statistical analysis of complex movement<br>phenomena<br>.2    Procedure and technique. Compilation of<br>statistical tables<br>.3    General organization of statistics. Official<br>statistics | 311.4   Private statistics<br>.41   Association statistics<br>.42   Trade statistics<br><br>312 <b>Demography. Population statistics. <i>See also</i></b><br>323.3; 325; 614.1<br>.1   Births<br>.2   Deaths<br>.3   Marriage<br>.4   Celibacy<br>.9   Division and composition from various points of<br>view: birthplace, age, sex, etc.<br><br>313 <b>Various statistics</b><br>.1   Statistics of accidents, illnesses and their results.<br><i>See also</i> 312.2; 368 |
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### 32 Political Science. Politics

*See also* 172

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| 321 <b>THE STATE AND SOCIETY</b><br>.01    Theory of the State. Nation and territory. <i>See</i><br><i>also</i> 342.1/.2<br>.1    Family. Patriarchate. Matriarchate. <i>See also</i><br>392.3 | 321.2   Hordes, tribes, castes, etc.<br>.3   Feudalism<br>.4   Ancient democracy<br>.5   Theocracy. Oligarchy. Aristocracy. Plutocracy.<br><i>See also</i> 261 |
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- 321.6 Authoritarian form of government  
 .61 Monarchy. Absolutism  
 .62 Despotism. Dictatorship  
 .63 Dictatorship of the proletariat  
 .64 Authoritarianism based on political and national movements. Fascism. National Socialism. *See also* 329.18; 335.76  
 .7 Parliamentary form of government  
 .77 Constitutional monarchy  
 .78 Popular sovereignty. Republic
- 322 **THE STATE AND THE CHURCHES.** *See also* 172.3; 261; 291; 341.21; 342.731; 348.7
- 323 **INTERNAL POLITICS.** *See also* 342.7  
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 .33 Workers  
 .34 Slaves. Serfs. *See also* 326  
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 .37 Civil servants. Officials. *See also* 323.32/.33  
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 .396 High society  
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- 324 **ELECTIONS.** *See also* 342.8
- 325 **MIGRATION. COLONIZATION. Colonies. Protectorates**  
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 .2 Emigration. Expatriation  
 .252 Voluntary emigrants  
 .254 Compulsory emigrants. Refugees  
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 .32 Intracontinental colonization and migration. Transfer of populations. Mass deportations  
 .33 Internal colonization and migration. Movement of the population from one part of country to another  
 .34 Protectorates. Mandated territories. *See also* 341.21  
 .35 Internal organization. Colonial administration  
 .351 Government through parent state  
 .352 Indigenous government  
 .354 Indigenous subjects  
 .355 Public property  
 .356 Colonization companies  
 .357 Representation of colonies. National Council  
 .36 Colonial empire. Imperialism  
 .38 Emancipation and independence movement of colonials
- 325.4 Peaceful colonization  
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- 326 **SLAVERY, SERFDOM.** *See also* 323.34; 331.5  
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 .3 Serfs and serfdom  
 .8 Abolition of slavery
- 327 **INTERNATIONAL POLITICS.** International relations  
*Subdivide by means of Common Auxiliary Subdivisions of Place and Time.*  
*The international political relations of two countries are expressed by means of the sign of Relation : and the geographical numbers of the two countries in numerical order; e.g. 327(51:52) Relations between China and Japan.*  
*Similarly international movements of various races are classified by means of the common subdivisions by (=...); e.g. 327(=81) Pan-slavism; 327(=924) Zionism.*  
*See also* 172.4; 323.1; 341  
 .3 Internationalism. Cosmopolitanism. *See also* 341.12  
 .37 Disarmament. *See also* 341.67  
 .394 Pan-Europeanism  
 .395 Pan-Asiaticism  
 .397 Pan-Americanism  
 .7 Formation of coalitions, of ententes  
 .8 Political intrigues  
 .84 Secret services. Espionage
- 328 **PARLIAMENTS. LEGISLATIVE ASSEMBLIES**  
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 .13 Cabinet  
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 .17 Resignation. Resignation of Cabinet. Dissolution of Parliament
- 329 **POLITICAL PARTIES**  
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 .13 Radicals  
 .14 Socialists. Labour Party  
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 .21 Monarchists  
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 .115 Mathematics of economics  
 .12 Objects of economics. Wealth  
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 .14 Capital. *See also* 332; 339  
 .15 Natural factors. Natural wealth and productive forces
- 330.16 Physico-psychological elements. Needs. *See also* 339.4  
 .17 Free and controlled economics  
 .172 Free  
 .173 Controlled. *See also* 338.98  
 .18 Economic systems  
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 .183 Physiocracy  
 .184 Classical schools. Manchester school, etc.

- 330.185 Ethical, romantic, historical and social-justice schools  
.186 Theories based at least partly on revelation and intuition: Christian, anthroposophic, etc.  
.187 Theories built up by conventional methods as in the exact sciences: empirical, natural science, technical, etc.  
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- 330.2 **Organization and collaboration in the realm of economics. Reorganization**
- 331 **LABOUR**
- 331.0 *Special Auxiliary Numbers*  
.01 Theory of economic labour  
.021 Kinds of labour: voluntary, professional, executive, etc.  
.022 Psychological aspect  
.024 Industrial manpower  
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.147 Encouragement  
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.152 Co-operative administration. Joint Board of Control. Company Unions, etc.  
.153 Conciliation  
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.158 Stimulus towards greater efficiency. Taylor system. Stakhanov system
- 331.16 Labour jurisdiction. Industrial and professional tribunals. Councils of experts. *See also* 351.83  
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- 331.2 **Wages. Pay.** *See also* 331.83; 347.45; 368.4  
.21 General questions  
.211 Payment. Method, place, time, etc.  
.214 Economic theories of pay  
.215 Fixing rates. Maximum. Minimum  
.218 Cumulation of wages and salaries  
.22 Scale of pay. Wages index. Sliding scale  
.221 Scale of pay  
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.23 Bases of remuneration for work  
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.57 Forced labour. Statute labour. *See also* 326  
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- 331.7 **Types of workers. Qualified and unqualified labour**  
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- 331.8/.9 **Various labour questions**  
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.826 Efficiency research  
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.862 Apprenticeship establishments. Works' schools  
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.872 Division. Specialization  
.875 Mechanization  
.88 Employers' and workers' associations  
.881 Occupational. Trade unions; e.g. 331.881; 622 Miners' Unions  
.882 Employers' associations  
.883 Mixed associations of employers and workers. *See also* 338.981  
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.892 Strikes  
.893 Sabotage. Boycott. Sit-down strikes  
.894 Employers' methods. Blacklist  
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.3	Air police	.817	Telephone
351.75	Internal order. Security. Control measures	.818	Radio
.751	Speech and writing. The Press	.819	Economic legislation. Intervention in agriculture, trade and industry. <i>See also</i> 343.53; 343.347; 347.241; 347.7; 351.77/.81; 351.83

351.821	Weights and measures	355	<b>MILITARY ART AND SCIENCE.</b>
.822	Currency		<b>NATIONAL DEFENCE. ARMED</b>
.823	Extractive industries		<b>FORCES. See also 623</b>
.1	Agriculture. Stockbreeding. Hunting.	355(091)	History of the art of war. <i>See also</i> 355.48
	Fishing	355.01	War. Its sociological aspects. Philosophy
.3	Mines		of war. Militarism
.824	Industry. Trade	.02	National defence policy. Military policy
.1	Industry		
.5	Trade	355.1	<b>Army and navy life. Customs. Uniforms and</b>
.825	Credit institutions		<b>medals</b>
351.83	Labour legislation. <i>Subdivide by means of</i>	.12	Military life in peace and war. Customs
	<i>sign of Relation : with 331; e.g. 351.83:</i>	.13	Military honour. Discipline. Esprit de corps.
	<i>331.81 Statutory regulation of duration of</i>		Morale. Decorations. Medals
	<i>work</i>	.132	Duels. <i>See also</i> 179.7; 343.61; 394.8
351.84	Social relief and welfare. Insurance	.133	Command and discipline. <i>See also</i> 344
351.85	Public education. Arts. Sciences. Litera-	.134	Decorations. Medals. Rewards. <i>See also</i>
	ture. Intervention in education		929.71
.851	Teaching. <i>See also</i> 37	.14	Uniforms. <i>See also</i> 355.66
.852	Museums. Collections. Libraries, etc.	.15	Standards, colours
.853	Monuments. Beauty spots. Excavations	.17	Ceremonials, tattoos
.854	Arts. Sciences. Literature. <i>See also</i> 5;		
	7; 8	355.2	<b>Recruitment. Requisitions. Mobilization</b>
.855	Public festivals, ceremonies, sports and	.211	Systems of compulsory service. Conscrip-
	games		tion
.856	Incentives. Orders and decorations, etc.	.212	Enrolment procedure. Registration
.857	Worship. Religion. Sunday observance,	.216	Volunteers
	etc.	.22	Requisitions. Billets, animals, vehicles, etc.
351.86	National defence	.23	Selection and training of officers. Officer
351.87	Administration of justice		training establishments
351.88	External relations	.24	Mobilization of the whole nation. Economic
			mobilization
351.9	<b>Supervision and control of public administra-</b>	.241	Agriculture. Industry. Man-power, etc.
	<b>tion</b>	.242	Materials and supplies
.91	By itself	.243	Transport
.94	By tribunals	.244	Measures regarding the civilian population
.95	Administrative jurisdiction	.1	Maintenance of morale. Censorship of
.96	Through parliament or other representatives		press and correspondence
		.2	Protection of civilians
352/354	<b>ADMINISTRATION AT DIFFERENT</b>	.25	Active service. Colour service. Instruction
	<b>LEVELS</b>	.27	Military mobilization
		.29	Demobilization. Wastages, discharges, etc.
352	<b>Local. Municipal</b>	355.3	<b>General organization of the forces</b>
.9	Local autonomous organs	.31	Army formations and units
.91	Water Boards. Polder-Boards, etc.	.32	Naval formations
353	<b>Regional administration. Province, county,</b>	.33	Army and navy ranks
	<b>etc.</b>	.34	Specialists and tradesmen. <i>See also</i> 356/359
		.35	Main branches of the armed forces. <i>See also</i>
354	<b>Central government. State administration</b>		356/359
354.1/.8	Enumeration of ministries or departments	.351	Land forces
.11	Foreign affairs	.352	Colonial army
.12	Colonies. Administration by parent state	.353	Naval forces
.21	Finance	.354	Air forces
.22	Treasury	.356	United forces of coalitions and alliances
.31	Interior. Home office	.357	International forces
.32	Education	.358	Secret armies and armaments
.34	Fine arts	355.4	<b>Operations of war. Tactics and strategy</b>
.36	Propaganda and information	.41	Logistics and field service
.41	Transport. Railways	.411	Movements
.42	Post	.415	Supply. Transport. Lines of communica-
.43	Telegraph		tion
.44	Telephone	.42	Tactics
.45	Public works	.422	Engagements in general. Battle tactics
.51	Justice	.423	Forest, street, river and mountain warfare
.53	Health	.425	Guerilla warfare
.61	War. National defence	.426	Civil war. Riots, barricades, etc.
.71	Admiralty	.43	Strategy. Plan of campaign
.73	Air	.44	Siege warfare
.8	Economics, trade and industry	.45	Defence
.83	Agriculture	.46	Naval operations. Air operations
.84	Labour	.461	Naval tactics
.86	Food	.462	Naval strategy

355.463	Combined operations. Landing operations	356.2	General staff organization and personnel
.469	Air operations	.25	Special services. Intelligence
.47	Military geography	.3	Administrative corps and services
.48	Military history, including combined operations. <i>Military history treated purely from the military standpoint. Wars as part of history in general are classed at 93/99</i>	.32	Commissariat. "R.A.S.C."
		.33	Medical
.486	Corps and regimental histories	.35	Legal. Police
.488	Studies of possible campaigns	.36	Education. Chaplains
.489	Histories of air operations	.37	Bases. Lines of communication services
.49	Naval history		
355.5	<b>Military training. Exercises. Drill</b>	357	<b>Cavalry. Mounted troops</b>
.52	Army exercises. Manœuvres	.1	Cavalry
.53	Field exercises. Tactical exercises	.2	Remount services
.54	Training of the various arms	.3	Transport services. "Train"
.541	Infantry. Small arms	.5	Cyclists. Despatch riders
.542	Cavalry. Armoured corps. Cyclists		
.543	Artillery	358	<b>Artillery. Engineers. Technical services. Air forces</b>
.544	Engineers. Field works	.1	Artillery
.55	Formation of specialist cadres in wider branches and units	.111	Horse. Field
.58	Civil defence organization and instruction. A.R.P.	.113	Coast. Garrison
		.114	Mountain
355.6	<b>Army administration</b>	.116	Anti-aircraft. Anti-tank
.64	Pay. Allowances. Pensions	.118	Self-propelled guns
.65	Feeding. Messing	.119	Tanks. Armoured cars
.66	Clothing. Equipment	.2	Engineers. Signals
.67	Quarters	.236	Signals
.69	Military transport. Transport of supplies	.3	Services connected with the construction of war materials, fortifications and works, camouflage
355.7	<b>Military establishments. See also 358.2/.3; 623.6; 725.18</b>	358.4	<b>Air forces. Air corps</b>
.71	Barracks, etc.	.41	Organization
.72	Medical establishments. Hospitals, etc.	.42	Formations: reconnaissance, fighter, bomber, etc.
.73	Artillery establishments. Arsenal. Ordnance factories	.43	Personnel
.74	Engineer establishments		
.75	Supply establishments. (Provisions and forage, Clothing, etc.)	359	<b>The naval service. Naval personnel</b>
.76	Air force establishments. Aerodromes, etc.	.1	Crews. Port and dockyard personnel. Reserves
355.8	<b>Supply of equipment, clothing, vehicles. See also 623</b>	.2	Specialists. Seamen, gunners, engineers, etc.
		.3	Marines. Coastguards, etc.
356/359	<b>VARIOUS BRANCHES OF THE FORCES. PERSONNEL AND ORGANIZATION</b>	.38	Naval air service. Fleet air arm
356	<b>Infantry. Administrative corps, etc.</b>	.4	Technical services
.1	Infantry	.5	Administrative services
		.6	Medical services
		.7	Legal services. Police, etc.
		.8	Miscellaneous personnel
		.81	Chaplains

## 36 Social Welfare Work and Relief. Insurance

361	<b>SOCIAL RELIEF IN GENERAL. PUBLIC ASSISTANCE. See also 179.2; 331; 339.1; 347.921; 351.84; 374</b>	362	<b>SOCIAL WELFARE ESTABLISHMENTS. See also 351.84</b>
.1	Medical relief in general. <i>See also 362.1</i>	.1	Medical attention. <i>See also 361.1</i>
.2	Social relief according to centre where exercised, etc.	.11	Hospitals. Infirmarys
.21	Town	.12	Clinics, dispensaries, etc. <i>See also 613/614</i>
.22	Country	.13	Sanatoria and hydropathic establishments
.7	Private relief. Philanthropy in general. Charity fêtes. Collections, etc.	.14	Sickness relief. Home attention
.8	Organization of relief. Charitable societies, institutions, councils. <i>Subdivide like 06.01/.05</i>	.15	Maternity welfare
.9	Assistance in certain exceptional cases: earthquake, flood, famine, war, fire, etc.	.16	After-care
.98	Technical relief service	.17	Family welfare. <i>See also 331.226</i>
		.18	Assistance in case of accidents
		.191	Assistance to wounded in wartime. Red Cross
		.193	Protection against illness and epidemics. Venereal peril. Fight against cancer
		.2	Care of the insane

- 362.3 Welfare of feeble-minded, imbeciles, backward children  
.4 Welfare of physically handicapped  
.41 Blind. *See* 371.9  
.42 Deaf. Deaf and dumb. *See* 371.9  
.5 Welfare of destitute. Foster-care of the poor. *See also* 331.6; 339.1  
.533 Support at specific times of year. Winter assistance  
.6 Welfare of the aged, the infirm  
.7 Child welfare  
.71 Infant welfare. *See also* 362.15  
.72 Illegitimate children. Foundling homes  
.73 Welfare of orphans  
.74 Care, education and protection of delinquent children. *See also* 179.2; 343.88  
.75 Foster-child system  
.76 Social relief in schools. *See also* 371  
.78 Care of sick children. Holiday settlements, etc.  
.8 Welfare of youth. Welfare of women  
.86 Defence, protection and reclamation of young girls and women  
.9 Other social works, services and institutions  
.92 Welfare of foreigners, refugees, etc.  
.93 Welfare of the forces, etc.  
.94 Welfare of the middle-classes. Assistance for newly poor, victims of economic crises  
.942 Newly poor  
.96 Provision for funerals. Interment funds. *See also* 334.8; 362.6  
.97 Social work on behalf of the unemployed. *See also* 331.6
- 63/367 **MOVEMENTS FOR SOCIAL BETTERMENT. SOCIETIES OF HUMANITARIAN CHARACTER**  
*The Special Auxiliary Subdivisions enumerated under 06 are applicable throughout 363/367*
- 63 Humanitarian movements of a more or less political character. *See also* 366  
64 Movements for the betterment of outcasts and declassés. Moral and social rehabilitation  
65 Movements on behalf of persons under punishment and prisoners  
66 Humanitarian institutions of an esoteric character. Secret societies  
.1 Freemasonry  
.3 Oddfellows, etc.  
.4 Rosicrucian movement. Templars, etc.  
.5 Secret societies of a criminal tendency
- 67 **Institutions for advancement of social intercourse**  
.2 Clubs  
.3 Rotary clubs
- 58 **INSURANCE**  
58.0 *Special Auxiliary Numbers*  
.01 Theory. Scientific bases. *See also* 334.7; 519  
.02 General insurance methods. Contracts. Policies. Provision of loss  
.03 Types of organization: public, private, mixed, etc.  
.04 Voluntary or compulsory insurance  
.041 Voluntary  
.042 Compulsory  
.1 Loss insurance in general. Insurance of things in general  
.10 Fire insurance in general. *See also* 614.84
- 368.11 Cash payment insurance  
.111 Property. Real estate  
.112 Chattels  
.12 Various insurances in connection with buildings  
.14 Limitation of fire insurance to certain causes or effects  
.15 Insurance of mortgage debt against damage by fire to property mortgaged  
.16 Insurance against damage by natural agents (excluding fire)  
.18 Personal and impersonal acts  
.182 Theft  
.186 Breakage of objects or materials. Glass  
.187 Breakages and faults in machinery and apparatus. Boiler explosion
- .2 **Transport insurance**  
.21 Land transport  
.22 Inland navigation transport insurance  
.23 Maritime transport insurance  
.24 Air transport insurance  
.26 Postal transport insurance
- .3 **Capital insurances in general. Personal insurances**  
.30 Life insurance in general  
.31/.37 Various questions concerning life insurance  
.38 Various insurances  
.381 Accident  
.382 Sickness  
.383 Disability  
.386 Operation
- .4 **Social insurance. Workmen's insurance**  
.41 Insurance against accidents  
.42 Social health insurance. Insurance against occupational diseases. *See also* 331.82  
.43 Old age. Infirmary. *See also* 362.6  
.44 Unemployment. *See also* 331.6  
.45 Marriage and maternity. *See also* 312.1  
.46 Widows and orphans
- .5 **Agricultural insurance**  
.51 Weather risks (hail, etc.). Plant diseases  
.52 Cattle  
.54 Harvest  
.55 Forests
- .8 **Various insurances**  
.81 Various financial losses  
.811 Credit. Debt recovery  
.813 Rent  
.86 Legal liability  
.87 Business losses
- 369 **SOCIAL GROUPS AND ORGANIZATIONS FOR THE PROMOTION OF SOCIAL AND NATIONAL SPIRIT**  
.1 Patriotic and similar institutions and organizations  
.18 Ex-service men's institutions  
.2 Racial and national institutions (without political aim)  
.4 Youth movement in general. *See also* 267.3/.6  
.41 General questions. Mixed organizations  
.42 Boys' movements  
.43 Training movement for development and education of group units  
.431 International. Boy Scouts  
.432 National  
.44 Youths



369.46 Girls' movements  
 .47 Training movement for encouragement and  
 education in groups

369.471 International. Girl Guides  
 .472 National  
 .48 Older girls

## 37 Education

37.0 *Special Auxiliary Numbers*  
 .01 Theory and philosophy of education  
 .015 Educational psychology in general  
 .018 Basic forms: school, home, etc.  
 .3 Boarding schools

### 371 TEACHING ORGANIZATION. EDUCATIONAL SYSTEMS

371.0 *Special Auxiliary Numbers*  
 .03 Cultivation of the personality: cultural, social,  
 civic, creative, etc.  
 .04 Education of specific categories  
 .041 Boys  
 .042 Girls  
 .043 Co-education  
 .048 Help: vocational guidance, etc.  
 371.1 Management. Teaching personnel  
 .12 Instructors. Teachers  
 .126 Training of teachers  
 .2 School organization  
 .21 Pupil and teacher. The school  
 .212 Admission. Promotion  
 .214 School programmes  
 .22 Fees  
 .23 Holidays. Terms  
 .26 Review of progress  
 .27 Examinations  
 .29 Certificates. Diplomas  
 .3 Methods of instruction  
 .32 By use of books  
 .33 Oral method  
 .4 Educational systems  
 .46 Froebel  
 .481 Montessori  
 .482 Dalton  
 .5 School discipline. Prizes  
 .6 School buildings. Apparatus  
 .7 School hygiene. Physical training, games.  
 Mental hygiene  
 .8 School life. Customs. Honours, uniform, etc.  
 .9 Education of special categories of pupils: lame,  
 blind, deaf and dumb, etc.

### 372 PRE-SCHOOL AND ELEMENTARY EDUCATION. *See also* 268; 362.76; 649

372.2 Kinds of elementary education  
 .21 Pre-school. Nursery schools. Kindergarten  
 .22 Primary schools. Junior schools  
 .221 Primary education properly so-called  
 .222 Intermediate primary education  
 .223 Higher primary education: 9- to 10-year-  
 olds. *See also* 373.4  
 .3 Beginners. Observation studies  
 .4 Reading. Spelling. Reading books  
 .5 Rudiments of writing and drawing. Simple  
 hand work  
 .6 Elements of grammar. Language lessons  
 .7 Elementary arithmetic  
 .8 Various elementary branches of knowledge.  
 Good citizenship, etc.

### 373 INTERMEDIATE OR SECONDARY EDUCATION. Education of pupils up to 18 years of age

373.4 Transitional and preparatory schools  
 .5 Various kinds of secondary school

373.51 Predominantly classical type. Grammar schools  
 .52 Predominantly scientific type. Technical  
 secondary schools  
 .53 Mixed types. Modern schools. Central, or  
 senior, schools  
 .6 Commercial and technical training. Polytechnics  
 .61 Commercial education, including evening  
 schools  
 .62 General technical instruction  
 .621 General trade schools  
 .622 General technical training schools  
 .623 Technical evening schools  
 .63 Specialized technical and industrial schools  
 .64 Girls' vocational training  
 .642 Domestic schools  
 .68 Agricultural education  
 .69 Re-education (e.g. disabled). *See also*  
 331.86.066  
 .7 Art schools  
 8 Teachers' training schools

### 374 PERSONAL EDUCATION. CONTINUATION SYSTEMS. *See also* 021; 331.85; 37.018

374.1 Self-tuition. Advice thereon  
 .2 Study groups. Travel institutions. Book  
 clubs, etc.  
 .4 Education by correspondence  
 .5 Courses. Radio courses  
 .6 Continuation courses  
 .64 University extension, etc.  
 .7 People's universities  
 .8 Complementary schools: Holiday courses, etc.  
 .9 Various institutions  
 .94 For the illiterate  
 .95 For immigrants  
 .96 For unemployed

### 378 HIGHER EDUCATION. Colleges. Academies. Universities

378.1 General organization. *The common subdivisions*  
*by .08 enumerated under 35.08 are applicable*  
 .12 Professorial body. Chairs  
 .18 Student life  
 .2 Degrees. Examinations  
 .3 Endowments. Bursaries, etc. *See also* 371.22;  
 371.53  
 .4 The Universities  
 .9 Specialist establishments for higher education.  
*Subdivide like 0/9; e.g.*  
 .938 Trade colleges  
 .962 Technical colleges  
 .963 Agricultural colleges  
 .97 Art academies  
 .978 Music academies

### 379 RELATION BETWEEN SCHOOL AND THE PUBLIC AUTHORITIES

379.1 Official public education  
 .12 Subsidies  
 .15 Inspection  
 .2 Struggle against illiteracy  
 .3 School politics. Differences of minorities, etc.  
 .7 Private education  
 .74 Private schools of a special social character  
 .77 Denominational education

## 38 Trade. Transport. Communications

*Only works which treat the questions from economic, political or social points of view are classified here. See also 65*

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|--|--|
| <p>380       <b>GENERALITIES</b></p> <p>380.1     Theory</p> <p>      .11    Supply and demand</p> <p>      .12    Supplies and markets</p> <p>      .13    Market analysis</p> <p>      .15    Chambers of Commerce</p> <p>      .16    Control of trade. Trade registers</p> <p>      .8     Tourist traffic</p> <p>381       <b>INLAND TRADE.</b> <i>See also 347.7; 351; 65</i></p> <p>381.1     Places where trade is carried on. <i>See also</i><br/>                 332.61; 347.731</p> <p>      .11    Merchandise exchanges</p> <p>      .12    Industries fairs</p> <p>      .14    Local markets</p> <p>      .15    Market halls</p> <p>      .17    Auctions</p> <p>381.2     Persons engaged in trade. <i>See also 332.62;</i><br/>                 347.732</p> <p>      .24    Brokers</p> <p>      .26    General representatives. Local agents</p> <p>      .27    Travellers</p> <p>381.3     Middleman trade</p> <p>      .31    Wholesale trade</p> <p>      .32    Intermediary wholesale trade</p> <p>      .33    Commission business</p> <p>381.4     Warehouses. Depots</p> <p>381.5     Retail trade. Shops</p> <p>      .51    Large stores. <i>See also 334.5</i></p> <p>      .511    Department stores</p> <p>      .513    Chain stores. Multiple shops</p> <p>      .514    One-price stores</p> <p>      .52    Small stores, shops</p> <p>      .53    Hawking. Colportage</p> <p>      .54    Sale by automatic machine</p> <p>      .55    Antique and secondhand trade. <i>See also</i><br/>                 7.075</p> <p>      .57    Occasional trade. Temporary shops.<br/>                 Amateur shopkeeping</p> <p>      .59    Other questions</p> <p>      .591    Places where shops are allowed</p> <p>      .592    Time restriction. Closing time</p> <p>381.6     Elimination of middleman. Sale direct to<br/>                 consumer. <i>See also 334.5</i></p> <p>381.7     Questions relating to trade technique from the<br/>                 economic point of view. <i>See also 338.5;</i><br/>                 381.2</p> <p>      .71    General practice</p> <p>      .717    Terms of delivery</p> <p>      .72    Barter</p> <p>      .73    Purchase</p> <p>      .74    Sale</p> <p>      .743/.745    Subdivide like 658.83/.85</p> <p>      .747    Clearances</p> <p>      .748    Terms of payment</p> <p>381.8     Various questions</p> <p>      .81    Competition. Combine. Cornering. <i>See</i><br/>                 <i>also 337; 338.6; 338.8; 38.011</i></p> <p>      .82    Various questions relating to commercial<br/>                 and industrial ownership, frauds and<br/>                 abuses and the means of combating<br/>                 them. <i>See also 347.736; 347.776</i></p> <p>      .822    Marks concerning weights, measures and<br/>                 origin</p> <p>      .823    Distinctive brands and packings.<br/>                 Patented inventions</p> | <p>381.823.6    Illicit competition</p> <p>      .829.3    Illicit trading. Smuggling</p> <p>      .83     Dumping. Anti-dumping</p> <p>      .84     Economic espionage</p> <p>      .85     Boycott. <i>See also 341.323; 341.65</i></p> <p>      .87     Trade nationalism. Movement to buy<br/>                 goods of national origin</p> <p>      .872    Propaganda for home manufactures.<br/>                 National mark</p> <p>      .877    Local trade patriotism</p> <p>      .89     Other questions</p> <p>      .893    Information of an economic and com-<br/>                 mercial character. Commercial pro-<br/>                 paganda from the economic point of<br/>                 view. <i>See also 659.23</i></p> <p>382       <b>FOREIGN TRADE.</b> International trade.<br/>                 <i>See also 380.12</i></p> <p>      .1     Organization, various systems</p> <p>      .14    Foreign trade politics</p> <p>      .16    Balance of trade</p> <p>      .2     Official and semi-official trade representation<br/>                 abroad. Trades missions. Consuls. <i>See</i><br/>                 <i>also 341.8</i></p> <p>      .3     Bonded warehouses. Free ports, etc.</p> <p>      .4     Trade agreements. Air navigation agree-<br/>                 ments. <i>See also 341.24</i></p> <p>      .5     Import</p> <p>      .6     Export</p> <p>      .7     Transit. Re-export of imported goods</p> <p>      .8     Various questions. Subdivide like 381.8</p> <p>383/388    <b>COMMUNICATIONS. TRANSPORT</b></p> <p style="padding-left: 20px;"><i>Here are classified only economic questions.</i><br/>                 <i>See also 625 and 629; 654 and 656</i><br/>                 <i>The Special Auxiliary Numbers enumer-</i><br/>                 <i>ated under 656.0 are applicable for internal</i><br/>                 <i>use only</i></p> <p>383       <b>Postal services</b></p> <p>384       <b>Telecommunications.</b> Telegraph, telephone,<br/>                 radio</p> <p>385       <b>Railways</b></p> <p>386       <b>Canals and inland waterways</b></p> <p>387       <b>Sea transport. Ports, docks and harbours</b></p> <p>388       <b>Roads and road transport</b></p> <p>      .1     Roads. Bridges</p> <p>      .4     Tramways and rapid urban transport</p> <p>388.9      <b>Air transport</b></p> <p>389       <b>METROLOGY. WEIGHTS AND</b><br/>                 <b>MEASURES. STANDARDIZATION.</b><br/>                 <i>See also 531.7</i></p> <p>      .1     Weights and measures. Systems: metric, etc.</p> <p>      .16    Units of weight and measure. Standards</p> <p>      .17    Numerical size and volumetric series</p> <p>      .2     Universal time. Time signals</p> <p>      .22    Summer time</p> <p>      .6     Standardization</p> <p>      .63    Standardization of measure</p> <p>      .64    Standardization of quality</p> |
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## 39 Ethnography. Manners and Customs. Folklore

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|---------|--|----------|---|
| 391/397 | <b>ETHNOGRAPHY. MANNERS AND CUSTOMS</b><br><i>See also 572</i> | 394.2    | Public festivals  |
|         |  | .25      | Carnival. <i>See also 391</i>   |
|         |  | .3       | Dances. Games   |
| 391     | <b>Clothing. Costume. Fashions. Beauty culture</b>             | .4       | Official ceremonies: coronation, triumphal processions  |
| 392     | <b>Customs concerning private life</b>                         | .5       | Pageants, processions   |
| .1      | Birth. Puberty. Majority                                       | .6       | Fairs. Country fairs  |
| .13     | Couvade. Man child-bed   | .7       | Customs of chivalry: tourneys, tournaments, etc.  |
| .14     | Baptism. <i>See also 265.1</i>                                 | .8       | Duel, suicide, hara-kiri. <i>See also 343.61</i>  |
| .15     | Circumcision   | .9       | Public hospitality. Relations with foreigners or towards specific persons. <i>See also 38; 392.7; 64.024; 65; 796/799</i> |
| .17     | Puberty rituals  |          |   |
| .2      | Human sacrifices. Head hunting. <i>See also 291.3</i>          | 395      | <b>Ceremonial. Etiquette.</b> <i>See also 177.1; 341.7</i>  |
| .3      | Family life. <i>See also 173; 321.1</i>                        | 396      | <b>Woman's place in society.</b> <i>See also 331.4; 342.83; 371.1</i>   |
| .5      | Marriage. <i>See also 173; 347.62; 348.6</i>                   | .1       | Emancipation. <i>See also 342.83</i>  |
| .54     | Forms of marriage  | 397      | <b>Nomads. Gipsies</b>  |
| .544    | Polyandry, polygamy  | 398      | <b>FOLKLORE</b>   |
| .545    | Monogamy   | .2       | Fairies. Myths. Legends   |
| .6      | Sex life   | .3       | Popular superstitions, beliefs and customs  |
| .62     | Concubinage  | .33      | Calendar festivals. <i>See also 264.04; 331.815; 394.4</i>  |
| .63     | Celibacy   | .332.416 | Christmas   |
| .65     | Prostitution   | .424     | New Year  |
| .7      | Hospitality, friendship. <i>See also 392.3</i>                 | .4       | Supernatural world. Witches, etc.   |
| .8      | Meals. <i>See also 394.1; 642</i>                              | .5       | Chap-books. Folk plays  |
| .9      | Other questions  | .6       | Riddles, conundrums, puzzles, mottoes, etc.   |
| .91     | Nicknames  | .7       | Dream books. <i>See also 159.963.3</i>  |
| 393     | <b>Death customs. Mourning.</b> <i>See also 614.6</i>          | .8       | Popular ballads   |
| .1      | Burial. <i>See also 718; 726.8</i>                             | .9       | Proverbs. Sayings. Saws, etc.   |
| .2      | Cremation. Incineration  |          |   |
| .3      | Embalment. Death masks   |          |   |
| .4      | Exhibiting the dead. Death vigil. Wake                         |          |   |
| .7      | Mourning   |          |   |
| 394     | <b>Public life. Social life.</b> <i>See also 355.1; 79</i>     |          |   |
| .1      | Banquets. Public meals. <i>See also 392.8; 642</i>             |          |   |

## 4 PHILOLOGY. LINGUISTICS

*See also 003; 301; 341.76; 371.9; 39; 571; 572; 612.78; 8; 9; Common Subdivisions of Language*

*Note: For those who prefer, it is possible to group linguistics and literature together. See thereon the note under 8 Literature*

### 40 General Questions

- |     |  |       |   |
|-----|--|-------|---|
| 401 | <b>Philosophy of language.</b> Origin, development, history                    | 409.3 | Peculiar languages. Secret languages. Thieves' language. Technical language; e.g. 409.3:2 |
| 406 | <b>Purism</b>  | .5    | Mimicry. Gesture language   |
| 407 | <b>Teaching of and study of languages in general.</b><br><i>See also 372.6</i> |       |   |
| 408 | <b>Kinds of languages and dialects</b>   |       |   |
| .3  | Living languages   | 411   | <b>Spelling and pronunciation</b>   |
| .4  | Dead languages. <i>See also 47</i>   | .4    | Spelling reforms. Simplified spelling   |
| .5  | Literary, commercial or everyday languages                                     | 412   | <b>Parts of speech</b>  |
| .55 | Commercial languages   | 413   | <b>Lexicography. Dictionaries</b>   |
| .7  | Dialects, patois   | .1    | Words grouped according to their meaning and use  |
| .8  | Hybrid languages. Conventional jargons. Pidgin-English, etc.                   | .11   | Names of places   |
| .9  | Artificial and international languages. Basic English, etc.                    | .13   | Names of persons  |
| .92 | Esperanto  | .14   | Words related in form and meaning. Synonyms, etc.   |
| 409 | <b>Special means of conveying thought</b>                                      |       |   |
| .1  | Sign languages   |       |   |

### 41 General Philology and Linguistics

413.163	Foreign words. Borrowed words
.164	Technical terms
.18	Idioms
.2	Other groupings: explanatory, etymological, phonetic, etc.
414	<b>Phonetics</b>
415	<b>Grammar. Morphology. Syntax. Etymology</b>
416	<b>Metrics. Rhythm. Prosody. Versification</b>
417	<b>Auxiliary sciences. Criticism. Hermeneutics.</b> Exegesis. <i>Subdivide by means of sign of Relation :</i>
418	<b>Sources of philology. Study of sources. See also 8(091)</b>

## 42/49 The Various Languages and Dialects

42/48	<b>WESTERN LANGUAGES. See also 491.6 and 494.5</b>
42	<b>Western Languages in general</b>
420	English
43	<b>Germanic languages</b>
430	German. High German
431	Low German
439	Other Germanic languages
.2	Frisian
.3	Netherlands languages in general
.31	Dutch, Northern Dutch
.32	Flemish
.36	Afrikaans
.38	Colonial West Indian languages
.5	Scandinavian. Nordic in the wide sense
.59	Icelandic
.6	Norwegian
.7	Swedish
.8	Danish
.9	Gothic (Eastern Germanic) languages
44	<b>Romance or neo-Latin languages in general</b>
440	French
449.0	Provençal
449.9	Catalan
450	Italian
459.0	Rumanian
459.9	Ladin. Romansch. Rhaeto-Romanic
46	Iberian languages
460	Spanish
469.0	Portuguese
469.9	Galician
47	<b>Latin and Greek</b>
471	Latin in general
472	Various languages and dialects of the Italian peninsula
.11	Umbrian
.12	Oscan
.13	Samnite
473	Latin at different stages of development: ancient (pre-classical), vernacular, mediaeval, modern
475	Greek in general. Classical Greek
476	Greek dialects: Ionic, Attic, etc.
477	Greek at different stages of development: mediaeval, modern, etc.
48	<b>Slavonic and Baltic languages</b>
481	Slavonic languages in general
482	Russian
482.6	White Russian
483	Ukrainian
484	Polish
485.0	Czech
485.4	Slovak

486	S. European Slavonic languages. Yugo-Slav languages. Serbo-Croat
.1	Serbian
.2	Croatian
.3	Slovene
.7	Bulgarian
488	Baltic languages
.2	Lithuanian
.3	Lettish
49	<b>OTHER LANGUAGES. ORIENTAL LANGUAGES IN GENERAL. EXOTIC LANGUAGES</b>
491	<b>Various Indo-European (Indo-Germanic) Languages</b>
.0	Indo-European or Aryan languages in general
.1	Indology in general
.2	Ancient Indian. Sanskrit
.3	Mediaeval Hindu. Pali. Prakrit
.4	Modern Indic languages. Hindi. Bengali
.5	Iranian languages. Persian
.51	Ancient Persian
.52	Avestan, or Zend
.6	Celtic
.62	Irish. Erse
.63	Scottish, or Gaelic properly so-called
.65	Cymric. Welsh. Cornish. Breton
.69	Iberian-Basque. Basque
.98	Armenian. Albanian. Other Aryan languages. Hittite
.99	Dead non-Aryan languages of Europe and Asia Minor
.994	Etruscan
492	<b>Semitic languages</b>
.1	Accadian languages. Babylonian-Assyrian
.2	Aramaic. Palestinian
.3	Syriac. Eastern Aramaic
.4	Hebrew
.45	Literary or modern Hebrew
.46	Yiddish
.49	Ancient Canaanite. Moabite
.7	Arabic
493	<b>Hamitic languages</b>
.1	Egyptian
.2	Coptic
494.1/.5	<b>Turkish and Uralo-Altaic languages</b>
.1	Manchu languages. Tungusian
.3	Turko-Tartar languages
.5	Finno-Ugrian language group
.511	Hungarian, or Magyar
.54	Western Finnish
.545	Estonian
494.6	<b>Caucasian languages</b>
494.7	<b>Hyperborean languages. Eskimo languages. Arctic languages</b>
494.8	<b>Dravidian languages</b>
495	<b>Various Asiatic languages</b>
.1	Chinese
.2	Thai-Chinese languages
.5	Assam languages
.6	Japanese
.7	Korean
.8	Burmese
.9	Southern Asiatic languages. Proto-Malaccan languages
496	<b>African languages. Negro languages</b>
.1	Hottentot languages
.2	Bushman languages
.3	Bantu languages. Kaffir languages
.6	Sudanic languages

497/498	<b>American languages</b>	499.21	Northern group of Indonesian languages (Tagala branch)
497	North and Central American languages	.22	S. and E. Indonesian languages: Malayan, Javanese
498	South American languages	.23	Oceanic languages. Melanesian and Polynesian
499	<b>Austronesian and Australian languages</b>	.5	Australian languages
.2	Indonesian languages. Malay-Polynesian languages		

## 5 NATURAL SCIENCES

501	<b>EXACT SCIENCES IN GENERAL</b>	E.g. 502.7:58	<i>Protection of plants</i>
502	<b>NATURAL HISTORY IN GENERAL</b>	:59	<i>Protection of animals</i>
.7	Protection of nature		<i>See also 719</i>

## 51 Mathematics

51.01	Philosophy of mathematics	513.5	<b>Conic sections and other varieties of the second degree</b>
511	<b>ARITHMETIC. THEORY OF NUMBERS</b>	.51/.55	Conic sections
.1	Numeration. Arithmetical operations	.56/.58	Quadrics
.2	General properties of numbers. Congruences and Diophantine equations of the first degree. Euler's function $\phi(m)$ . Systems of residues. Quadratic residues. Quaternions with integral coefficients. Complex numbers. Division of the circle. Prime numbers. Partitions	.6	<b>Algebraic curves, surfaces and varieties. Special transcendental curves, surfaces and varieties</b>
.3	Arithmetical functions other than $\phi(m)$	.7	<b>Complexes, congruences, connexes. Infinitesimal and kinematic geometry. Transformations</b>
.4	Forms and systems of forms. Linear and quadratic forms. Forms of any degree	.8	<b>Non-Euclidean, and other forms of geometry. Topology. Functional and Hilbert spaces</b>
.5	Diophantine equations of higher than first degree	.83	Topology. Analysis Situs
.6	Integral algebraic numbers	514	<b>TRIGONOMETRY. POLYGONOMETRY</b>
.7	Arithmetic theory of continued fractions	.1/.5	Plane trigonometry
.8	Transcendental numbers	.6	Spherical trigonometry
.9	Farey series, etc. Special classes of numbers. Polygonal numbers	515	<b>DESCRIPTIVE GEOMETRY</b>
512	<b>ALGEBRA</b>	516	<b>ANALYTICAL GEOMETRY</b>
.1	Elementary algebraic operations and formulae	.1/.4	<b>Classical (Cartesian) analytical geometry</b>
.2	Equations and functions of the first and second degree	.5/.9	<b>Modern analytical geometry. Co-ordinate systems</b>
.3	Theory of higher degree equations. Calculation of roots. Transcendental equations	517	<b>ANALYSIS</b>
.4	Galois' group theory and solution of higher degree equations by radicals	.1	<b>General principles. Axiomatics</b>
.5	Rational fractions. Algebraic interpolation	.2	<b>Differential calculus</b>
.8	Determinants and matrices. Linear substitutions. Elimination. Higher algebraic forms. Invariants and covariants	.3	<b>Integral calculus</b>
.9	General theory of imaginaries and of complex quantities. Vector analysis	.4	<b>Functional determinants. Differential forms. Differential and integral operators</b>
513	<b>GEOMETRY</b>	.43	Differential and integral operators and invariants. Operators of the vector calculus. Heaviside's operational calculus
.0	<b>Generalities. Principles of geometry. Axioms. Analytical treatment. Infinitesimal methods and properties. Subdivision from the standpoint of the theory of groups</b>	.5	<b>General theory of functions</b>
.1	<b>Plane geometry in general</b>	.51	Functions of real variables. Representation by series and definite integrals
.2	<b>Circle geometry in general</b>	.52	Infinite series. Infinite products. Algebraic continued fractions
.3	<b>Solid geometry in general. Polyhedra</b>	.53	Analytic functions of a complex variable
.4	<b>Right cylinder and cone. Sphere and system of spheres. Theory of geometrical constructions</b>	.54	Conformal representation
		.544	Dirichlet's problem. Boundary value problem
		.56	Algebraic, circular and various other functions

517.562	Circular, exponential and logarithmic functions	518.6	Other methods of calculation. Numerical solution of differential equations
.564	Hyperbolic functions. Bessel functions. Lamé functions. Spherical harmonics	.9	Mathematical puzzles, games and curiosa
.6	Definite integrals and in particular Eulerian integrals	519	<b>COMBINATORIAL ANALYSIS. CALCULUS OF PROBABILITIES. CALCULUS OF VARIATIONS. GROUP THEORY. THEORY OF SETS</b>
.7	Elliptic functions and their applications	.1	Combinatorial analysis
.8	Hyperelliptic functions. Abelian functions. Fuchsians	.2	Calculus of probabilities. Statistical mathematics
.9	Differential and partial differential equations. Functional equations. Finite differences. Recurrent series	.21	Calculus of probability
.91	Differential equations in general	.24	Analysis and interpretation of statistical material. Frequencies. Statistical series
.92	First order differential equations	.25	Statistical regularity. Errors of observation, not arranged in order. Mean or probable values
.93	Special differential equations of higher order and non-linear	.26	Qualitative observations
.94	Linear equations	.27	Quantitative observations
.941.9	Boundary problems of linear differential equations	.271	Observations affecting a one-dimensional variable
.944	Partial differential equations	.272	Observations affecting several measurable qualitative characteristics. Correlation
.947	Linear partial differential equations with constant coefficients	.28	Various questions. Statistical investigation of cause and expectation of future events. Quality control, operational analysis, actuarial calculations
.948	Functional equations		<i>Subdivide by sign of Relation:</i>
.948.32/.33	Integral equations	.3	Calculus of variations
.948.35	General linear operational equations. Spectral theory of linear operators	.34	Direct methods of calculus of variations. Dirichlet's principle. Ritz's method
.949	Theory of finite differences	.4	General theory of groups, fields and ideals. <i>See also</i> 512.4; 512.8
518	<b>SPECIAL METHODS OF CALCULATION</b>	.5	<b>Theory of sets</b>
.1	Generalities concerning methods of calculation		
.2	Logarithmic, trigonometric and other tables		
.3	Nomography		
.4	Graphical calculation		
.5	Mechanized calculation		

## 52 Astronomy. Geodesy

521/525	<b>GENERAL ASTRONOMY</b>	523.12	Cosmogony. Hypotheses concerning the origin and future of the universe
521	<b>Theoretical astronomy</b>	.123	World ice hypothesis
.0	<i>Special Auxiliary Numbers</i>	.16	Various cosmic phenomena. Cosmic dust. Cosmic rays
.03	Astrophysics	.2	Solar system
.04	Astrochemistry	.3	The moon
.07	Astrobiology	.4	Planets
.1	Celestial mechanics	.41	Mercury, and infra-Mercurial planets
.2	Description of orbits. Co-ordinates	.42	Venus
.3	Determination of orbits	.43	Mars
.4	Perturbations	.44	Asteroids
.5	Orbital motion of planets	.45	Jupiter
.6	Orbital motion of satellites	.46	Saturn
.7	Theory of comets	.47	Uranus
.8	Theory of occultations and transits	.481	Neptune
.9	Aberration. Precession. Nutation, etc.	.482	Pluto
522	<b>Practical astronomy</b>	.483	Other extra-Neptunian planets
.1	Observatories	.489	Hypothetical planets
.2	Telescopes	.49	Tables, photographs, atlases of planets
.3	Meridian instruments	.5	Meteors and zodiacal light
.4	Other observation instruments	.6	Comets
.5	Auxiliary instruments. Chronometers	.7	The sun
.6	Apparatus for recording and interpreting records. Calculating instruments	.74	Surface of the sun
.7	Spherical astronomy	.746	Sunspots
.9	Corrections. Errors	.78	Eclipses of the sun
523	<b>Descriptive astronomy. Cosmography</b>	.79	Sun charts, atlases and photographs
.1	Universe. Structure of the universe. Interstellar or interplanetary space	.8	Stars
		.82	Brightness. Magnitude. Visibility. Giant stars. Dwarf stars

523.83	Proper motions	526.2	Measurement of bases
.84	Variable stars. Novae. Double stars	.3	Triangulation. Levelling
.85	Star clusters and nebulae	.4	Calculation of triangulation
.854	Milky Way	.5	Errors. Compensation
.87	Spectra of stars and nebulae	.6	Astronomical determination of geographical co-ordinates
.88	Constellations. Their origin	.7	Measurement of gravity
.89	Star catalogues. Star atlases	.8	Cartography
.9	Transits and occultations	.9	Topography. Surveying. Instruments
525	<b>The Earth. The Earth considered astronomically</b>	.918	Photogrammetry
.1	Constants	527/529	<b>APPLIED ASTRONOMY</b>
.2	Physics of the Globe	527	<b>Nautical astronomy. Navigational astronomy</b>
.3	Orbit and motions of the Earth	529	<b>Chronology. Measurement of time. The calendar</b>
.4	Geographical co-ordinates. Determination on land. <i>See also</i> 527	.1	Day. Sidereal day. Solar day
.5	Seasons	.2	Time calculation in general
.6	Tides	.3	Calendars in general
.7	Terrestrial atmosphere. <i>See also</i> 551.51	.4	Christian calendar
526	<b>GEODESY AND CARTOGRAPHY</b>	.5	Calendar reformation
.1	Theory and determination of the shape of the Earth	.7	Measurement of time
		.78	Time measuring apparatus

## 53 Physics and Mechanics

53.0	<i>Special Auxiliary Numbers</i>	531.23	Moments
.01	Theory and nature of phenomena	.25	Graphical statics
.08	General principles of measurement and of physical instruments	.26	Attraction and potential
.081	Units. Constants	531.3	<b>Dynamics</b>
.082	Principles of measurement and of the structure of instruments	.31	Fundamental principles
.083	Methods of measurement. Direct measurement. Resonance methods. Ballistic methods. Null methods	.32/.33	Particle dynamics
.084	Construction of instruments. Components. Light sources. Heat	.35	Motion under central forces
.085	Apparatus for taking readings. Scales	.36/.38	Motion of a rigid body
.087	Observation. Recording	.39	Dynamics of material systems. Other problems
.2/.3	Subjective observation	531.4	<b>Work. Friction</b>
.4	Objective observation in general	.41	Work. Efficiency
.5	Photographic recording	.43/.46	Friction
.6	Graphical recording	.47	Resistance of free axes
.9	Auxiliary devices for calculating, counting, printing	.49	Various passive resistances
.088	Errors. Corrections	531.5	<b>Gravitation. Weight. Pendulum laws. Ballistics</b>
.089	Other questions. Calibration, etc.	.51	Gravitation. Gravity. <i>For general laws of attraction see</i> 531.26
530.1	<b>GENERAL PRINCIPLES OF PHYSICS</b>	.52	Laws of falling bodies
.11	The absolute in individual phenomena	.53	Pendulum theory
.12	Relativity principle	.55	Laws of motion of projectiles
.13	Principles of constancy and variability	.56	Secondary motion of projectiles in the air. Spin. Deviation. Atmospheric influences
.14	Synthesis of the principles of constancy and variability. Atomism in general	57	Motion in the barrel and penetration into the object struck. Internal ballistics. Perforation
.145	Quantum theory. Wave mechanics	531.6	<b>Mechanical energy. Conservation of mechanical energy</b>
.15	Principles of action and reaction	.61	Mechanical energy. Conservation of mechanical energy
.16	Principle of causality and principle of probability. Analogies	.62	Law of the conservation of energy in mechanics
.19	General considerations concerning fundamental concepts such as potential, intensity, capacity	.64	Mechanical energy of space. Potential energy
531	<b>MECHANICS</b>	.65	Mechanical energy of motion. Kinetic energy
.01	<b>Mathematical theory of mechanics</b>	.66	Collisions. Impact
531.1	<b>Kinematics. Geometry of motion</b>	531.7	<b>Measurement of geometrical and elementary mechanical magnitudes</b>
531.2	<b>Statics and graphical statics</b>	.71	Measurement of length
.211	Force. Mass		
.22	Composition and resolution of forces		

531.711	Standards of length. Standard meter.	534.4	Analysis and synthesis of vibrations. Resonance methods
.713	End standards	.41	Qualitative analysis of vibrations
.714	Comparators and cathetometers for line measurement and scales	.415	Stroboscopy
.715	Measuring instruments and machines	.44	Quantitative analysis of vibrations
.716	Other precision instruments. Various optical methods	.5	Composition of vibrations. Interference
.717	Industrial measuring apparatus. Less exact apparatus	.6	Beats
.718	Measurement of thickness. Spherometer.	.61	Acoustical measurements
.719	Measurement of diameters, straightness, parallelism. Screw pitches. Depth calipers	.63	Measurement of intensity
.72	Gauges and gauging in general	.64	Measurement of frequency
.729	Other instruments for measurement of length. Curvimeters. Measurement of distance. Measurement of depth	.647	Measurement of acoustical impedance
.72/.79	Measurement of other elementary magnitudes	.7	Measurement of trepidations. Earthquakes. Seismographs
.72	Measurement of surfaces and sections	.8	Physiological acoustics
.729	Calipers	.83	Applications
.73	Measurement of volume of solids, liquids and gases	.84	Noise abatement
.74	Measurement of angles	.85	Architectural acoustics
.75	Determination of mass and density	.86	Acoustics of gramophone records and loud speakers
.76	Measurement of time, velocity and acceleration	.87	Problems of radio broadcasting and sound recording
.77	Measurement of angular velocities	.88	Acoustic signalling
.78	Measurement of forces, work and pressure	535	Sound-ranging. Direction finding
.79	Other measurements. Counting and dividing	535.1	<b>OPTICS. LIGHT</b>
531.8	<b>Applied mechanics</b>		<b>Theory of light</b>
532	<b>MECHANICS OF FLUIDS. HYDRAULICS</b>	535.2	Emission theory
.1	Hydrostatics in general	.21	Wave theory
.12	Compressibility	.211	Electromagnetic theory
.13	Internal friction. Viscosity	.212	
.2	Equilibrium of liquids	.214	<b>Radiation. Photometry</b>
.29	Levels. Spirit-levels	.215	Effects of radiation
.3	Hydrostatics of immersed and floating bodies	.218	Thermal effect
.5	Fluid motion. Hydraulics. Hydrodynamics	.22	Luminous effect
.57	Hydrometry	.23	Mechanical effect. Radiation pressure.
.6	Capillarity. Surface tension	.24	Radiometry
.7	Kinetic theory of liquids. Solution and crystallization phenomena	.241	Electrical effect. Photo-electricity
.71	Osmosis	.242	Magnetic effect
533	<b>GASES. PNEUMATICS. AERODYNAMICS</b>	.245	Velocity
.1	Properties of gases	535.3	Energy of radiation
.2	Elasticity and compressibility	.31	Intensity of light. Photometry. Measurement
.4	Barometry	.311	Photometric units
.5	Rarefaction of gases. Vacua	.312	Photometers
.6	Aerodynamics. Aeronautics	.313	Measurement of mean intensity and of illumination intensity
.7	Kinetic theory of gases	.314	
534	<b>VIBRATIONS. WAVES. SOUND. ACOUSTICS</b>	.315	<b>Reflection. Refraction. Absorption. Emission</b>
.0	<i>Special Auxiliary Numbers</i>	.316	Geometrical optics. <i>See also</i> 535.8
.01	Theory of vibrations	.317	Rectilinear propagation. Shadow
.011	Transverse waves	.318	Reflection. Plane mirrors
.012	Longitudinal waves	.319	Curved mirrors
.013	Torsion waves	.32	Refraction
.1	Vibration of bodies	.322	Prisms
.2	Propagation of vibrations. Velocity. Refraction, etc.	.329	Thin lenses. Astigmatic lenses
.3	Characteristic vibrations of bodies	.33	Thick lenses. Optical systems
.32	Sound	.34	Objectives and eyepieces in general
.321	Pitch	.35	Testing for optical homogeneity, parallelism of plates
.9	Ultra-sonic vibrations	.36	Refractive indices. Dispersion. Refractometry
		.37	Measuring instruments
		.39	Anomalous dispersion
			Spectra in general. Emission spectra
			Absorption. Absorption spectra
			Excitation. Extinction
			Diffusion. <i>See also</i> 535.4
			Luminescence. Fluorescence. Phosphorescence
			Mutual influence of refraction, absorption and reflection. Dichroism. Metallic reflection



535.4	<b>Interference. Diffraction. Scattering by diffraction. Tyndall effect. <i>See also</i> 535.36</b>	536.54	Calorimetric methods of thermometry
535.5	<b>Polarization. Double refraction</b>	.55	Other methods
.51	Polarization	.58	Thermoregulation. Thermostats. Maintenance of constant temperature
.52	Optical surfaces and axes. Double refraction	536.6	<b>Measurement of quantity of heat. Calorimetry</b>
.54	Chromatic polarization	.62	Methods
.56	Rotation. Polarimeters	.63	Specific heat
.58	Rotary dispersion	.65	Latent heat
535.6	<b>Colours</b>	.66	Heat of reaction
.61	Generalities. Wave lengths	.662	Of combustion
.62	Composition of colours. Colour mixing	.68	Determination of thermal requirements
.64	Colour systems. Theories of colour	536.7	<b>Thermodynamics. Technical theory of heat</b>
.65	Colour measurement. Methods. Apparatus	.71	Change of state
.66	Colours of bodies. Colouring power. Covering power	.711	Adiabatic
.68	External influence of illumination, etc.	.712	Isothermal
535.7	<b>Physiological optics. <i>See also</i> 612.84</b>	.713	At constant pressure
.767	Optical relief. Binocular vision. Stereoscapy	.714	At constant volume
535.8	<b>Various applications. Optical instruments</b>	.715	Under other conditions
.81	Optical glass. Prisms. Lenses	.717	Cycles. Diagrams
.82	Magnifying glasses and microscopes	.72	Equivalence of forms of energy. Law of conservation of energy. First law of thermodynamics
.83	Spectacles. Binoculars. Telescopes	.721	Mechanical equivalent of heat
.84	Micrography and macrography	.722	Transformation of energy
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.311	Continental erosion and subaerial deposits	.49	General hydrology. Subterranean waters. Infiltration. Ground water. Springs. Hydrological prospecting
.1	Influence of temperature. Glaciers and their formation. Icebergs. Glacier erosion. Moraines. Erratic blocks. Specific landscape forms. Dust	.491.6	Water in the soil
.311.2	Influence of precipitation. Weathering. Soil formation. Action of rain and running water. Landslips. Mountain creep. Valley formation. Underground water weathering. Peneplains. Landscape formation in general. Connection between climate and type of weathered soil	.7	Permeability to water. Capillary phenomena
.3	Action of and formations due to wind	551.5	<b>METEOROLOGY</b>
.31	Dunes	551.50	<b>Practical meteorology</b>
.33	Loess	.501	Organization of observations. Investigation methods
.4	Zoogenous formations	.506	Collections of data
.5	Fulgurites, etc.	.508	Instruments
.6	Clastic deposits	.509	Weather forecasting and other applications
.7	Volcanic formations	551.51/.59	<b>Theoretical meteorology. Phenomena</b>
.8	Mud volcanoes	.51	Composition, structure, mechanics and thermodynamics of the atmosphere
.312	Deposits in fresh water	.510.4	Composition
.1	Spring deposits	.5	Structure
.2	Marshes. Peat formation	.511	Mechanics. Thermodynamics
.3	River deposits	.513	General circulation
.4	Lake deposits	.515	Atmospheric disturbances. Cyclones, etc.
		.52	Radiation and temperature of the atmosphere

551.521	Radiation	552.32	Calc-alkali rocks
.524	Temperature of the air	.33	Alkali rocks
.525	Earth temperature		
.526	Temperature of the water surface, viewed meteorologically	552.4	<b>Metamorphic rocks</b>
.54	Atmospheric pressure	.051	Structure. <i>Special Auxiliary Numbers</i>
.55	Wind	.42	Gneiss
.57	Humidity of the air. Cloud. Precipitation	.43	Crystalline schists
.571	Humidity	.44	Phyllites. Sericite slates
.573	Evaporation	.45	Quartzites. Itacolumites
.574	Condensation and deposit	.46	Marbles
.575	Fog and mist	.47	Serpentine schists
.576	Clouds	.48	Eclogites. Amphibolites
.577	Precipitation in general	552.5	<b>Sedimentary, including loose volcanic, rocks</b>
.578	Special forms of precipitation	.51	Coarse and medium arenaceous rocks
.579	Soil moisture and soil water formation	.52	Argillaceous deposits. Mud. Clay. Loam.
.58	Climatology	.53	Loess. Shales. Slates
.583	Climatic changes. Palaeoclimatology. <i>Subdivide by combination with the subdivisions of 551.7</i>	.54	Evaporation deposits. Salts. Gypsum
.59	Various influences and phenomena	.55	Calcareous rocks. Limestones. Marls
.590.2	Cosmic influences	.56	Siliceous rocks
.7	Biological influences	.57	Ironstones
.591	Visibility	.573	Combustible carbonaceous rocks
.593	Optical phenomena	.574	Anthracite
.594	Electrical phenomena	.575	Coal
.596	Acoustic phenomena. Thunder	.576	Jet
		.577	Lignite. Brown coal
		.578	Peat
		.58	Petroleum. Asphalt. Bituminous schist
			Organogenic rocks in general
551.7	<b>STRATIGRAPHY. HISTORICAL GEOLOGY</b>	552.6	<b>Meteorites</b>
.7(1)	Regional stratigraphy	553	<b>ECONOMIC GEOLOGY AND MINER- ALOGY</b>
.71	Archaeal	553.06	<b>General classification according to origin of deposits. <i>Special Auxiliary Numbers</i></b>
.72	Algonkian	.062	Intramagmatic deposits
.73	Palaeozoic	.063	Intrusive deposits
.732	Cambrian	.064	Pneumatolytic deposits
.733	Silurian	.065	Hydrothermal metasomatic deposits
.1	Ordovician	.068	Sedimentary deposits
.3	Upper Silurian. Gothlandian	.069	Deposits of unknown origin
.734	Devonian	553.1	<b>Determination and description of ores and of economic minerals</b>
.735	Carboniferous	.12	Mineralogy. Determination
.736	Permian	553.2	<b>Origin of minerals. Kinds of ore deposits. Alterations in the bedrock</b>
.75	Strata common to Palaeozoic and Meso- zoic ages	553.3/.6	<b>Occurrence of ores and other inorganic minerals</b>
.76	Mesozoic	.3	Iron and manganese ore
.761	Triassic	.4	Other ores
.762	Jurassic	.41	Gold and silver ores
.763	Cretaceous	.43	Copper ores
.77	Cainozoic in general	.44	Lead, zinc, thallium and cadmium ores
.78	Tertiary	.45	Tin ores
.781	Palaeogenic or Old Tertiary. Nummu- litic	.46	Chromium, molybdenum, tungsten, vanadium, niobium, tantalum, ger- manium ores
.782	Neogene or Late Tertiary	.48	Cobalt and nickel ores
.79	Quaternary	.49	Other ores
		.492.1	Bauxite
551.8	<b>PALAEOGEOGRAPHY. <i>Subdivide like 551.7</i></b>	.5	Building stones, sculptors' stones, orna- mental stones
552	<b>PETROLOGY. PETROGRAPHY</b>	.6	Various inorganic minerals besides heavy metals
552.1/.2	<b>General considerations</b>	.61	Clay. Feldspar. Kaolin
.1	Investigation methods. Physical and chemical character. Texture. Joint occurrence of various minerals, dia- genesis and metamorphism in general		
.2	General classification of rocks		
552.3	<b>Eruptive, or Igneous, rocks</b>		
.31	General questions. Plutonic, hypabyssal and volcanic rocks in general		



553.62	Sand. Gravel. Quartz. Kieselguhr	553.93	Anthracite. Graphitic coal
.63	Various salts and other inorganic compounds	.94	Coal
553.7	Mineral waters	.96	Lignite. Brown coal
553.8	Precious and semi-precious stones	.97	Peat. Sapropel
553.	Combustible carbonaceous minerals	.98	Hydrocarbons. Petroleum. Aspl
.91	Graphite	.99	Bituminous schist. Mineral gas
			Fossil resins. Amber. Fossil cop

## 56 Palaeontology. Fossils

56(11)	Stratigraphic palaeontology. Zone fossils	561	<b>SYSTEMATIC PALAEOBOTANY.</b>
56(4/9)	Geographical palaeontology		<i>divide like 582</i>
56:57	Palaeobiology		
:581	Palaeobotany (general)	562/569	<b>SYSTEMATIC PALAEOZOOLOGY.</b>
:591	Palaeozoology (general)		<i>divide like 592/599</i>
56.0	Analytical palaeontology. Fossilization. Causes of general alterations. Problematics. Reconstructions. <i>Special Auxiliary Numbers</i>		

## 57 Biology

571/572	<b>ANTHROPOBIOLOGY</b>	575.6	Influence of migration on spec formation
571	<b>Prehistory. Archaeology. Prehistoric man.</b>	.7	Regeneration and degeneration. tinction
	Palaeoethnology		
571(11)	Prehistoric periods		
571.1/.2	Stone Age remains	576.1	<b>Origin of life. Evolution. Origin of spec</b>
.1	Primitive objects		<b>Phylogeny</b>
.2	Tool worked objects	576.2	<b>General morphology and physiology</b>
.3	Copper and bronze objects	576.3/.7	<b>Degrees of organic development of life</b>
.39	Tin objects	576.3/.5	<b>Cytology</b>
.4	Iron objects	.3	General cell theory. Cytology. Pr
.5	Various objects including those of organic origin	.33	plasm
.7	Art objects	.333	Stimuli
.8	Remains of dwellings and buildings	.4	Tactisms and tropisms
.9	Various structures	.5	Movements of the cell
.91	Burials in general	576.6	Combination of cells and unicel organisms. Cell colonies
.912.4	Barrows	576.7	<b>Symbiosis. Mutualism. Parasitism</b>
.94	Stone monuments. Cromlechs		<b>General histology. Organs. Organi</b>
.96	Mounds	576.8	<b>MICROBIOLOGY. BACTERIOLO</b>
.97	Settlements	.0	<b>PARASITOLOGY</b>
572	<b>Anthropology. Ethnology</b>	.093	<i>Special Auxiliary Numbers</i>
	<i>See also 39</i>	.094	Microbiological technique
.1/.4	Anthropogeny	.095	Morphology
.1	Monophyletic or polyphyletic deriva- tion of man	.097	Physiology
.4	Place and time of man's origin	.85	Antigens and antibodies
.5	Somatology. Bodily characteristics of man	.858	Systematic bacteriology
.7	Morphology	.9	Virus species
.9	Ethnology. Theory of races	.88	Bacteriophages
574/577	<b>GENERAL BIOLOGY</b>	.89	Vegetable parasites
574	<b>Collateral biological sciences</b>	577	Animal parasites
.6	Applied biology. Technical biology	577.1	<b>GENERAL PROPERTIES OF LIFE</b>
.9	Biogeography	.15	<b>Biochemistry. Biological chemistry</b>
.91	Migration. Transposition of species	.16	Enzymes. Enzymology
575	<b>Heredity. Development of organisms</b>	.17	Vitamins. Vitaminology
.1	Theory of heredity. Mendel phenomena	.2	Hormones. Other biological cat
.2	Theory of variation. Theory of mutation	577.3	Life. Comparison between life and
.3/.7	Species formation. Factors influencing species formation	.39	<b>Biophysics. Biological energetics</b>
.3	Adaptation to environment. Morpho- genesis. Lamarckism	.4	Stimuli. Reactions of living bein stimuli
.4	Natural and artificial breeding choice. Selection. Darwinism		General conditions of life. Hun
.5	Sexual selection		Drought

577.5	Plants compared with animals	578.08	Experiments. Biometry. <i>Special Auxiliary Numbers</i>
.6	Considerations about the existence of life. Vitalism	.6	Microscopy of biological objects
.7	Death		
.8	Generation. Sexuality	579	<b>Natural history collections. Biological collections</b>
.9	Phenomena of growth and propagation of living tissues	.1/.5	Dressing
		.6	Technique of collecting
578/579	<b>BIOLOGICAL TECHNIQUE</b>	.7	Mounting of collections
578	<b>Biological technique. Microscopy</b>	.8	Maintenance and preservation of collections

## 58 Botany

581	<b>GENERAL BOTANY. PLANT BIOLOGY</b>	582.262	Conjugatae
.0	Internal and external factors. Development factors. Experiments. Culture methods. <i>Special Auxiliary Numbers</i>	.263	Chlorophyceae. Green algae in general
.08	Experimental botany	.264	Protococcales. Volvocaceae
.09	Culture methods	.265	Ulotrichales. Ulvaceae
.1	Plant physiology	.266	Siphonocladales. Cladophoraceae
.11	Circulation of water and gases. Absorption. Exudation. Transpiration	.267	Siphonales. Caulerpacaeae
.12	Catabolism. Respiration	.271	Charophyta. Characeae. Stoneworts
.13	Assimilation. Nutrition. Reserve substances. Secretion. Symbiosis. Metabolism	.272	Phaeophyceae. Brown algae
.14	Development. Germination. Growth. Flowering	.273	Rhodophyceae. Red algae in general
.15	Variability. Variation. <i>See also</i> 581.3	.274	Bangiales
.16	Reproduction. Heredity	.275	Florideae
.17	Cell physiology	.28	Eumycetes. True fungi
.18	Movement. Sensitivity to stimuli. Tropisms and tactisms	.281	Phycomycetes. Algal fungi
.19	Plant chemistry. Physiological chemistry of plants. Phytochemistry	.282	Ascomycetes
.2	Plant diseases. Phytopathology. Malformations. <i>Classify for preference under</i> 632	.283	Protomycetes
.3	Embryology	.284	Basidiomycetes in general
.4	Morphology	.287	Eubasidii. Mushrooms
.5	Ecology. Phytosociology. Plant and environment	.288	Fungi imperfecti
.6	Applied botany. Economic botany. <i>See also</i> 63	.29	Lichens
.8	Histology	.290	Phycolichens
.9	Plant geography. Flora. <i>Subdivide by means of the common subdivisions of Place</i>	.291	Ascolichens
		.296	Basidiolichens
582	<b>SYSTEMATIC BOTANY. BOTANICAL TAXONOMY</b>	.31	Asiphonogamous embryophyta. Archegoniatae
582.2/.3	<b>CRYPTOGAMIA. SPORE PLANTS</b>	.32	Bryophyta. Muscineae. Mosses in general
.21	Cryptogamia	.33	Hepaticeae. Liverworts
582.22	<b>Thallophyta</b>	.34	Musci. Mosses
.23	Schizophyta	.35	<b>Pteridophyta. Vascular cryptogams. Fern-like plants in general</b>
.231	Schizomycetes. Bacteria. <i>See also</i> 576.8	.37	Articulatae. Equisetaceae. Horsetails
.232	Schizophyceae. Blue-green algae	.38	Lycopodiinae. Lycopodiaceae. Selaginellaceae
.24	Phytosarcodina. Myxothallophyta. Myxomycetes. Slime fungi	.391	Psilotinae. Psilotaceae
.25	Flagellates	.392	Isoetinae. Isoetaceae
.251	Flagellatae	.394	Filicinae. Ferns
.252	Dinoflagellatae. Peridineae	582.4/.9	<b>PHANEROGAMS</b>
.253	Adiniferidea	.4	Embryophyta. Siphonogamia. Phanerogams or seed-plants in general
.254	Diniferidea	582.42	<b>Gymnospermae or naked seed-plants</b>
.258	Silicoflagellatae	.44	Cycadales
.259	Heterocontae	.47	Coniferae. Yews. Firs. Cypresses. Junipers
.26	Algae. Seaweeds	582.5	<b>Angiospermae. Flowering plants</b>
.261	Bacillariophyta. Diatomeae. Centricae. Pennales	582.52	<b>Monocotyledoneae</b>
		.522	Pandanales. Typhaceae. Pandanaceae. Sparganiaceae
		.53	Helobiae. Fluviales
		.532	Potamogetonaceae
		.533	Naiadaceae
		.535	Scheuchzeriaceae
		.536	Alismatineae

582.539	Hydrocharitaceae	582.683	Capparidaceae. Cruciferae
.541	Triuridales. Triuridaceae	.684	Resedineae. Resedaceae
582.542	Glumiflorae	.685	Moringineae. Moringaceae
.1	Gramineae. Grasses	.686	Bretschneiderineae
.2	Cyperaceae. Sedges	.69	Sarraceniales. Sarraceniaceae
.545	Principes. Palmae. Palms	.71	Rosales
.546	Synanthae. Cyclanthaceae. Panama hat plant	.715	Crassulaceae
.547	Spathiflorae. Araceae. Lemnaceae. Duckweeds	.716	Cephalotaceae
.55/.56	Farinosae. Flagellariaceae	.717	Saxifragaceae
.57	Liliiflorae. Liliales	.718	Pittosporaceae
.571	Juncineae. Juncaceae. Rushes	.719	Byblidaceae
.572	Liliineae. Liliaceae	.721	Brunelliaceae
.579	Iridineae. Iridaceae	.722	Cunoniaceae
.58	Scitamineae. Arillatae. Musales. Musaceae	.723	Myrothamnaceae
.59	Microspermae. Orchidales. Orchida- ceae. Orchids. Burmanniineae	.724	Bruniaceae
.599	Anomaliae. Monocotyledons not pro- vided for elsewhere	.725	Hamamelidaceae. Witch hazel
582.61	<b>Dicotyledoneae</b>	.727	Eucommiaceae
582.62/.89	Archichlamydeae	.732	Platanaceae. Plane tree
582.62/.66	Apetalae. Monochlamydeae. Incompletiae	.733	Crossosomataceae
.621	Verticillatae. Casuarinaceae	.734	Rosaceae. Roses. Apples. Plums
.622	Piperales. Saururaceae	.735	Connaraceae
.623	Salicales. Salicaceae. Willows	.736	Leguminosae
.624	Garryales. Garryaceae	.737	Mimosoideae
.625	Myricales. Myricaceae	.738	Cesalpinoideae
.626	Balanopsidales. Balanopsidaceae	.739	Papilionatae. Peas. Beans
.627	Leitneriales. Leitneriaceae	.74	Pandales. Pandaceae
.628	Juglandales. Juglandaceae. Walnuts	.75	Geraniales
.629	Batidales. Batidaceae	.751	Geraniineae. Geraniaceae
.631	Julianiales. Julianiaceae	.752	Simarubaceae. Tree of Heaven
.632	Fagales. Betulaceae. Birches. Fagaceae. Beeches. Oaks	.754	Malpighiineae
.635	Urticales	.755	Polygalineae. Tremandraceae
.1	Ulmaceae. Elms	.756	Dichapetalineae
.2	Rhoipteleaceae	.757	Tricoccae
.3	Moraceae. Mulberries	.2	Euphorbiaceae. Spurge
.5	Urticaceae. Nettles	.759	Callitrichineae. Callitrichaceae
.637	Podostemonales. Podostemonaceae	.76	Sapindales. Celastrales
.639	Proteales. Proteaceae	.761	Buxineae. Buxaceae
.64	Santalales	.762	Empetrineae. Empetraceae
.641	Santalineae. Santalaceae	.763	Coriariineae. Coriariaceae
.642	Myzodendraceae	.764	Limnanthineae. Limnanthaceae
.65	Aristolochiales	.765	Anacardiineae. Anacardiaceae
.651	Loranthaceae. Mistletoe	.766	Celastrineae. Cyrillaceae
.653	Balanophorales. Balanophoraceae	.771	Icaciniineae. Icacinaceae
.657	Polygonales. Polygonaceae	.772	Sapindineae. Aceraceae
.66	Centrospermae	.773	Sabiineae. Sabiaceae
.662	Chenopodiaceae	.774	Melanthineae. Melianthaceae
.663	Amarantaceae	.775	Didiereineae. Didiereaceae
.664	Phytolaccineae. Nyctaginaceae	.776	Balsaminineae. Balsaminaceae
.665	Portulacineae	.78	Rhamnales
.666	Portulacaceae	.782	Rhamnaceae. Buckthorn
.667	Basellaceae	.783	Vitaceae. Vines. Grapevine
.668	Dysphaniaceae	.79	Malvales. Elaeocarpineae. Elaeo- carpaceae. Tiliaceae. Limes
.669	Caryophyllineae. Carnations	.81	Parietales
582.67/.89	Polypetalae. Choripetalae. Dialypetalae	.831	Tamaricineae. Elatinaceae
.67	Ranales	.835	Cistineae. Cistaceae. Rock rose
.671	Nymphaeinae. Nymphaeaceae. Waterlilies	.839	Cochlospermineae. Cochlosper- maceae
.672	Trochodendrineae. Trochodendraceae. Cercidiphyllaceae. Judas tree	.842	Flacourtiineae. Winteranaceae
.675	Ranunculineae. Ranunculaceae. Crow- foot. Buttercup	.843	Papayineae. Caricaceae
.677	Magnoliineae. Magnoliaceae	.844	Loasineae. Loasaceae
.678	Lauraceae	.845	Datiscineae. Datisceae
.68	Rhoeadales	.846	Begoniineae. Begoniaceae
.681	Rhoeadineae	.847	Ancistrocladineae. Ancistrocla- daceae
.682	Papaveraceae. Poppy	.85	Opuntiales. Cactaceae. Cactuses
		.86	Myrtiflorae
		.862	Geissolomataceae
		.863	Penacaceae
		.865	Thymelaeaceae
		.866	Elaeagnaceae
		.87	Myrtineae. Lythraceae
		.886	Oenotheraceae

.82.887	Halorrhagaceae	582.943	Polemoniaceae
.888	Hippuridinae	.948	Boragininae. Boraginaceae. Borage
.889	Cynomoriinae. Cynomoriaceae	.949	Verbeninae. Verbenaceae. Vervain
.89	Umbelliflorae	.951	Solaninae. Solanaceae. Potato.
.892	Araliaceae. Ivy		Tomato
.893	Umbelliferae	.952	Orobanchaceae. Broom rape
.894	Cornaceae	.953	Lentibulariaceae. Bladderwort.
.82.9	Metachlamydeae. Sympetale		Butterwort
.911	Diapensiales. Diapensiaceae	.955	Acanthinae. Acanthaceae
.912	Ericales. Clethraceae. Heaths	.956	Myoporinae. Myoporaceae
.918	Primulales. Theophrastaceae.	.957	Phryminae. Phrymaceae
	Primulaceae. Primroses	.96	Plantaginales. Plantaginaceae
.919	Plumbaginales. Plumbaginaceae	.97	Rubiales
.92	Ebenales. Sapotaceae	.972	Rubiaceae
.93	Contortae	.973	Caprifoliaceae
.931	Oleinae. Oleaceae	.974	Adoxaceae
.933	Gentianinae	.975	Valerianaceae
.935	Loganiaceae	.977	Dipsaceae
.936	Gentianaceae	.98	Cucurbitales. Cucurbitaceae. Gourds
.937	Apocynaceae	.99	Campanulatae
.938	Asclepiadaceae	.992	Campanulaceae. Harebells
.94	Tubiflorae	.998	Compositae. Daisies
.941	Convolvulvinae	.999	Other dicotyledones. Anomali
.942	Convolvulaceae. Bindweed		

## 59 Zoology

591	<b>GENERAL ZOOLOGY</b>	593.7	Hydrozoa
.08	Experimental zoology. <i>Special Auxiliary Numbers</i>	.71	Hydroidea
.1	Zoological physiology	.73	Scyphozoa
.1.05	Metabolism	.8	Ctenophora
.11	Blood. Blood circulation	.9	Echinodermata
.12	Respiration	.99	Enteropneusta
.13	Nutrition. Nutrition deficiency. Inanition. Senescence	594	<b>Protostomata. Mollusca</b>
.14	Secretion. Excretion. Lymph. Glands in general	.1/.5	Mollusca properly so-called
.15	Variation. Heredity	.1	Lamellibranchiata. Pelecypoda
.16	Reproduction. Gestation period. Biogenesis. Incubation	.2	Selenoconchae. Scaphopoda
.17	Movement. Locomotion	.3	Gastropoda
.18	Functions of the nervous system	.5	Cephalopoda
.2	Pathology. Teratology. Deformities	.6	Molluscoidea
.3	General embryology. Development theory. Ontogeny	.7	Bryozoa. Polyzoa
.4	Anatomy. Organology	.8	Brachiopoda
.5	Habits. Ethnology. Ecology. Bionomy	.9	Tunicata
.51	Psychology	595	<b>Articulata</b>
.6	Applied zoology. Economic zoology. <i>See also 636</i>	.1	Vermes
.69	Parasitology	.18	Rotatoria
.8	General histology. Tissue theory	.2	Arthropoda
.9	Zoogeography. Animal geography. Fauna	.3	Branchiata. Crustacea
		.4	Arachnoidea
		.5	Onchyophora. Protracheata. Peripatidae
		.6	Myriopoda
		.7	Insecta. Hexapoda
		.71	Apterygogenea. Thysanura
		.72	Orthoptera
592/599	<b>SYSTEMATIC ZOOLOGY. ZOOLOGICAL TAXONOMY</b>	.73	Archiptera
		.74	Neuroptera
		.75	Rhynchota. Hemiptera
592/595	<b>INVERTEBRATA</b>	.76	Coleoptera
592	<b>Invertebrata in general</b>	.77	Diptera
593	<b>Plasmodroma</b>	.78	Lepidoptera
.1	Protozoa	.79	Hymenoptera
.12	Foraminifera	.799	Apidae
.17	Infusoria	596/599	<b>VERTEBRATA</b>
.3	Coelenterata	596	<b>Vertebrata in general</b>
.4	Spongiaria. Porifera	597	<b>Pisces. Fishes. Ichthyology.</b>
.5/.8	Cnidaria	.1	Acrania. Leptocardia. Pharyngo-
.5	Cnidaria in general. Zoophytes		branchii
.6	Anthozoa. Actiniaria		

597.2	Marsipobranchii. Cyclostomata	599.31	Edentata
.3	Elasmobranchii	.32	Rodentia
.4	Ganoidei	.33	Insectivora
.44	Chondrostei	.4	Chiroptera
.48	Dipnoi. <i>See also</i> 597.6	.5	Cetacea
.5	Teleostei	.51	Mystacoceti
.6	Amphibia. Batrachia	.53	Odontoceti. Delphinidae
.7	Gymnophiona	.55	Sirenia
.8	Anura	.6	Ungulata in general
.9	Urodela	.61	Proboscidea
598	Sauropsida in general	.62	Hyracoidea
.1	Reptilia	.64	Homolodotheria. Toxodonta
.2	Aves. Birds. Ornithology	.65	Litopterna
.29	Saurians	.66	Amblypoda
.3	Grallatores	.71	Ungulata
.4	Natatores	.72	Perissodactyla. Single-hoofed animals
.5	Ratitae	.73	Artiodactyla. Cloven-hoofed animals
.6	Gallinacei	.735	Ruminantia
.65	Columbae	.74	Carnivora
.7	Scansores	.8	Quadrumanes. Primates
.8	Passeres	.81	Prosimiae
.81/.84	Oscines	.82	Simiae
.9	Raptatores	.88	Anthropomorphae
599	Mammalia	.9	Bimanes. Homo. Man. <i>Classify here the position of man in nature and comparative research concerning men and animals in general. See also</i> 572; 611; 612; 616
.1	Monotremata		
.2	Marsupialia		
.3	Placentalia		

## 6 APPLIED SCIENCES. MEDICINE. TECHNOLOGY

6(091)	GENERAL HISTORY OF INDUSTRY	608.1	Generalities. <i>Inventions concerning a specific subject are classified with that subject</i>
608	INVENTIONS AND DISCOVERIES. TRADE MARKS. <i>See also</i> 347.77	.3	Letters patent
608(084.1)	Drawings	.3(082)	Collections of letters patent
608(086.6)	Models of apparatus	.4	Patterns. Models. Drawings of inventions
608(088.7)	Trade marks	.6	Descriptions of trade marks and brands
608(088.8)	Patents	.6(082)	Collections of trade marks and trade names

## 61 Medical Sciences. Medicine. Hygiene. Pharmacy

611	ANATOMY	611.32	Pharynx and oesophagus
611-0	General anatomy. <i>Special Auxiliary Numbers</i>	.33	Stomach
-012	Teratology *	.34	Intestines
-013	Embryology	.35	Rectum
-018	Histology. <i>See also</i> 581.8; 591.8	.4	Lymphatic and endocrine systems
-019	Comparative anatomy	.41	Spleen
611.08	Experiments. Observations	.42	Lymphatics
611.1/.8	Systematic anatomy. <i>Special anatomy. Splanchnology</i>	.43	Thymus
.1	Angiology. Circulatory system	.44	Thyroid gland
.12	Heart	.45	Suprarenals, adrenals
.13	Arteries	.6	Urogenital system
.14	Veins	.61	Kidneys and ureters
.2	Respiratory system	.62	Bladder and urethra
.21	Nose	.63	Male genital organs
.22	Throat. Larynx	.64	Penis
.24	Lungs	.65	Female genital organs
.3	Alimentary tract. Digestive system	.66	Uterus
.31	Mouth	.67	Vagina and vulva
.314	Teeth	.69	Mammary glands
		.7	Locomotor and integumentary system
		.71	Osteology. Bones
		.72	Syndesmology. Joints
		.73	Myology. Muscles

511.74	Tendons, aponeuroses, ligaments	612.7	Organs of movement. Voice. Skin
.75	Bursae. Synovial sheaths	.73/.74	Muscles
.77	Skin. Integuments	.75	Joints. Bones
.78	Hair. Nails. Combs. Feathers, etc.	.76	Locomotion. Principles of animal mechanics
.8	Nervous system. Sense organs		Voice and speech
.81	Central nervous system. Brain	.78	Skin, hair, nails, etc.
.82	Spinal cord	.79	
.83	Peripheral nervous system	612.8	Nervous system. Sense organs
.839	Autonomic nervous system	.81	Peripheral nerves
.84	Organs of sight. Eye	.82	Nerve centres. Brain
.85	Organs of hearing, of equilibrium.	.83	Spinal cord. Reflexes
	Ear	.84/.88	Subdivide like 611.84/.88
.86	Olfactory organs	.84	Physiological optics
.87	Taste organs	.86	Sense of smell
.88	Tactile organs	.89	Autonomic nervous system
.89	Nerve ganglia		
.9	Regional anatomy	613/614	<b>HYGIENE AND PREVENTIVE MEDICINE</b>
612	<b>PHYSIOLOGY</b>		
.01	General considerations. Theories and principles. <i>Special Auxiliary Numbers</i>	613	<b>GENERAL AND PERSONAL HYGIENE</b>
.012	Vivisection		Climatic factors
.014	Physiology of the cell	.1	Acclimatization
.2	Histophysiology	.11	Composition of the air
.4	Environmental influences	.15	
.015	Physiological chemistry. <i>See also</i> 577.1	613.2	<b>Food and diet. <i>See also</i> 612.39</b>
.016	Mechanisms of attack and defence.	.22	Child feeding
	Autotomy. Mimicry and symbiosis	.24	Fasting. Reducing and slimming diets
.017	Immunity. Anaphylaxis. Allergy.		Overfeeding. Fattening diet. Forced feeding
	Toxins and antitoxins	.25	Vegetable foods
.018	Hormones. <i>See also</i> 577.17 and 612.4	.26	Vegetarianism
.019	Comparative physiology	.261	Fruit, green and root food. Raw food
612.1	<b>Blood and circulation</b>	.262	Mineral foods
.12	Blood chemistry	.27	Animal foods. Meat, eggs, milk, butter
.14	Blood pressure	.28	Other foods. Spices
.17	Heart	.29	Beverages. <i>See also</i> 613.81 <i>Artificial foods</i>
612.2	<b>Respiration</b>	.3	
612.3	<b>Digestion</b>	613.4	<b>Care of the body. Clothing</b>
.32	Stomach	613.5	<b>Housing hygiene. <i>See also</i> 645</b>
.34	Pancreas	613.6	<b>Occupational hygiene. Industrial hygiene</b>
.35	Liver		Generalities on occupational diseases
.36	Defaecation	.62	Influence of noxious gases and dust
.38	Absorption	.63	Injurious physical influences. Noise.
.39	Physiology of nutrition	.64	Light. Crowding
.392	Foodstuffs in general. Vitamins. <i>See also</i> 577.16	.65	Excessive exertion, strain
.396	Carbohydrates	.67	Military hygiene
.397	Fats	.68	Nautical
.398	Proteins	.69	Other occupation
612.4	<b>Glands in general. Secretion and Excretion</b>	.693	Aviation
.41/.45	Subdivide like 611.41/.45	613.7	<b>Hygiene of rest. Recreation and sleep</b>
.46	Kidneys and urine	.71	(Swedish) Gymnastics
.49	Other glands and secretions	.73	Fatigue. Overtraining. Exhaustion
.492	Pituitary gland	613.8	<b>Hygiene of the nervous system and in relation to morals</b>
612.5	<b>Animal heat. Body temperature</b>	.81	Alcohol
612.6	<b>Reproduction and development</b>	.83	Narcotics
.60	Generalities concerning reproduction and development	.84	Tobacco
.61	Male reproductive system	.86	Mental and moral hygiene
.62	Female reproductive system	.88	Sexual behaviour. Sex education
.63	Fertilization. Pregnancy	.89	Marriage. Celibacy
.64	Physiological development of the organism	613.9	<b>Hygiene in relation to race, age and sex</b>
.65	Growth	.94	Eugenics
.66	Influence of age upon physiological processes. Puberty. Maturity. Lactation	.95	Child hygiene
.67	Senility. Death	.99	Hygiene of women. <i>See also</i> 618
.68	Longevity and rejuvenation		

614	<b>PUBLIC HEALTH</b>	615	<b>PHARMACY. THERAPEUTICS.</b> Pharmaceutics. Pharmacology. Materia medica. Drugs. Methods of treatment. Toxicology
614.1	<b>Population. Depopulation</b>	615.1	Pharmacology. Pharmacopoeias. Posology
614.2	<b>Official and professional organization</b>	615.2	Inorganic materia medica
.25	Medical profession. Practitioners	615.3	Organic materia medica
.253	Relations between doctors, etc., and colleagues, patients, etc. Rights.	.31	Carbon compounds in general
.253.5	Duties. Responsibility	.32	Vegetable medicaments. Drugs
.26	Nurses. Attendants	.36	Organotherapy
.27	Illegal practice of medicine. Quackery	.361	Treatment with hormones. Opotherapy
.28	Sale of medicines and drugs, secret remedies	.362	Treatment with normal body fluids, with external secretion fluids
.29	Sale of poisons	.37	Serology. Serotherapy. Bacteriotherapy. Vaccine therapy. Inoculation. Immunization
614.3	<b>Health inspection. Government medical supervision of foodstuffs. Inspection of commodities</b>	.371	Vaccine therapy
.31	Control and inspection of foodstuffs	.372	Pasteur treatment
.35	Inspection and control of medicines	.373	Serotherapy
.37	Inspection and control of various commodities, e.g. wallpapers, dyes, etc.	.38	Haemotherapy. Blood transfusion
.39	(State) Medical services	.4	Practical Pharmacy. Preparation of medicines and therapeutic remedies
614.4	<b>Prevention of infectious diseases. Measures</b>	.41	Pharmaceutical preparations. Powders, Pills, etc.
.44	Prevention and control of infectious diseases	.43	Pharmacognosy. Study of diagnostic characters of drugs
.45	Isolation	.45	Industrial manufacture of medicines
.46	Quarantine	.452	Proprietary medicines. Specialities
.47	Inoculation	.46	Dressings
.48	Sterilization. Disinfection	.47	Medical instruments. Apparatus. Nursing appliances. <i>See also</i> 616-7
614.6	<b>Disposal of the dead</b>	.471	Diagnostic instruments
.61	Cemeteries. Graveyards	.472	Surgical and medical instruments for therapeutic purposes
.62	Cremation. Crematoria	.473	Instruments for insertion and drainage. Catheters. Injection tubes. Irrigators
.63	Transport of corpses	.475	Medical apparatus and machines
.64	Embalment	.477	Trusses, pads and other appliances
614.7	<b>Hygiene of soil, water and air. Pollutions. Drainage</b>	.478	Medical and surgical furniture
614.8	<b>Prevention of accidents. Safety measures</b>	.49	Dispensary necessities. Capsules. Boxes. Tubes, etc.
.80	Accidents in general	.5	Pharmacodynamics. Pharmacology
.81	Drowning	.53	Homoeopathy. Allopathy. Dosimetry
.82	Accidents by falling, crushing, asphyxiation	.531	Homoeopathy. Allopathy
.825	Accidents due to electricity	.535	Dosimetry
.83	Explosions	615.7	<b>Drugs classified according to their action.</b>
.835	Storage of explosive or inflammable materials	.71	<b>Chemotherapy</b>
.84	Fire. Fire brigade	.72	Acting on circulatory system
.86	Safeguarding traffic and passengers	.73	Acting on respiratory system
.87	Safeguarding against cold or extreme heat	.74	Acting on digestive system
.88	First aid in accidents	.75	Acting on glands
.89	Personal safety measures against accidents. Safety clothing. Masks. Respirators	.76	Antipyretics. Anti-rheumatic agents. Anti-malarials
.891	Safeguarding head and face	.77	Acting on genito-urinary organs.
.893	Protection of the eyes. Goggles	.77/.779	Diuretics
.894	Protection of respiration. Gas masks	.78	External agents
.895	Protective clothing	.79	Disinfectants. Antiseptics. Insecticides
.896	Protection of arms and hands	.8	Acting on nervous system. Anaesthetics. Narcotics
.897	Protection of legs and feet	.81	Mineral waters. Spring waters
.898	Protection against chemicals, rays, heat, etc.	.82	Various curative methods
614.9	<b>Animal hygiene. Veterinary hygiene</b>	.83	Mechanotherapy. Artificial respiration
.97	Hygiene of slaughter-houses, abattoirs	.835	Massage
		.838	Physiotherapy. Nature cure
		.84	Air cure. Altitude cure
		.849	Hydrotherapy
		.85	Electrotherapy
			Radiotherapy. Radiology. <i>See also</i> 616-073
			<b>Other curative methods</b>

515.851	Psychotherapy	616-089.1	Generalities
.851.13	Psychoanalysis	.4	Dressing
.2	Hypnosis	.5	Anaesthesia. <i>See also</i> 615.78
.852	Faith cure. Prayer cure	.8	Operative technique
.856	Perkinism. Metallotherapy	-091	Morbid anatomy
.859	Rest cures	.5	Postmortem examination. Dissection.
.89	Popular curative methods. Household remedies	.8	Autopsy
.9	Toxicology. Poisons	-092	Morbid histology
		-093/-098	Pathological physiology. Pathogenesis
			Bacteriological and parasitological studies
616	<b>PATHOLOGY AND CLINICAL MEDICINE</b>	-099	Poisoning. Intoxication
516-00	<b>Morbid lesions. <i>Special Auxiliary Numbers applicable throughout</i> 616, 617, 618</b>	616-1/-9	<b>Medical accessories</b>
-001	Injuries. Wounds. Traumata	-1	Prosthetic materials
-002	Inflammation	-2	Models, casts
.5	Tuberculosis	-7	Instruments. Equipment
.6	Syphilis	616.1/.9	<b>Special pathology. Medical specialities</b>
.73	Leprosy	.1	Diseases of blood and circulatory system. Cardiovascular diseases
.77	Rheumatism	.12	Heart disease
.78	Gout	.13/.14	Vascular disease
.79	Fever. <i>See also</i> 616.91	.15	Blood disorders, anaemias, etc.
-003	Regressive lesions. Degeneration and regeneration. Transudation. Exudation. Wound cleansing	.2	Diseases of respiratory organs. Nose, throat and ear
-004	Sclerosis. Hardening	.21	Diseases of the nose. Rhinology
.6	Arteriosclerosis. <i>See also</i> 616.13	.22	Diseases of the throat. Laryngology
-005	Disorders in blood supply. Haemorrhage. Thrombosis. Embolism. Anaemia. <i>See also</i> 616.15	.23	Diseases of the trachea and bronchi
-006	Tumours. Cysts. Oncology	.24	Diseases of the lungs
.4	Cancer. Carcinoma	.28	Diseases of the ear. Otology
-007	Teratology. Malformations. Monstrosities. Congenital and developmental abnormalities	.3	Diseases of the digestive organs. Gastroenterology
-008	Disorders in function and metabolism	.31	Stomatology. Diseases of the mouth
-009	Local nervous disorders	.314	Dentistry. Odontology
616-02/-09	<b>Various points of view concerning disease, patient, and treatment</b>	-083	Dental nursing
-02	Origins of disease. Aetiology	-089.23	Orthodontia
-03	Various forms of disease. Indications for treatment. Prognosis. Localization	.28	Dental prosthesis
-05	Characteristics, attributes of the patient	.32	Diseases of nasal cavity and pharynx.
-053	Patient's age	.329	Tonsils
.2	Diseases of childhood. Pædiatrics	.33	Oesophagus
.9	Diseases of old age. Geriatrics	.34	Diseases of the stomach
-056	Constitution of the patient. Reaction. Predisposition	.35	Diseases of the intestines
-057	Occupation of the patient	.36	Diseases of the rectum
-06	Complications. Co-existence. Correlation. Antagonism between two affections	.37	Diseases of the liver, gall-bladder and bile passages
-07	Signs and symptoms. Diagnosis	.38	Diseases of the pancreas
-071	Clinical investigation. Anamnesis	.4	Diseases of the peritoneum and abdominal cavity
-072	Instrumental diagnosis. Endoscopy	.44	Lymphatic system. Glandular disease.
-073	Physical investigation. Electro-diagnosis. Radiography	.455	Endocrinology
-074	Laboratory and chemical diagnosis	.5	Diseases of the thyroid gland
-076	Microscopic investigation. Biopsy	.6	Adrenal disorders
-078	Bacteriological investigation	.61	Skin diseases. Dermatology
-08	Treatment. Management. <i>See also</i> 615	.63	Genito-urinary diseases. Urology. <i>See also</i> 618
-082	Medical attention and care	.7	Kidney diseases
-083	Nursing	.71	Urine disorders. Diabetes
-084	Preventive treatment. Prophylaxis. <i>See also</i> 614	.72	Diseases of the locomotor organs
-085	Therapeutic measures	.74	Bone diseases
-089	Surgical treatment. Surgical technique. <i>See also</i> 617	.8	Joint diseases
		.83	Muscular disorders
		.831	Neurology. Psychiatry
		.832	Diseases of the nervous system
		.833	Diseases of the brain
		.839	Diseases of the spinal cord
		.84	Diseases of the peripheral nervous system
		.85	Diseases of the autonomic nervous system
		.851	Functional disorders. Neurasthenia
			Functional neuroses
			Chorea



616.852	Hysteria	616.95	Diseases communicated to human beings by animals. Animal diseases
.853	Epilepsy. Falling sickness	.953	Rabies
.857	Headache, migraine	.956	Anthrax
.858	Parkinson's paralysis	.957.2	Thrush
.859	Sea sickness. Air sickness	.97	Venereal diseases.
.88	Diseases of the sense organs	.999	Infectious diseases in animals
.886	Diseases of the sense of touch	.32	Foot and mouth disease
.89	Psychopathology. Mental disorders.	.76	Cattle plague
	Psychoses. Insanity. Psychiatry		
.9	General and infectious diseases	617	<b>SURGERY.</b> <i>See also</i> 616-089
.91	Infectious fevers	.3	Orthopaedics
.912	Smallpox	.5	Regional surgery
.915	Measles	.7	Ophthalmology. Eye diseases
.917	Scarlatina. Scarlet fever		
.921.1	Dengue fever	618	<b>GYNAECOLOGY. OBSTETRICS</b>
.2	Weil's disease	.1	Gynaecology
.5	Influenza	.2	Obstetrics. Normal pregnancy
.922	Typhus fever	.3	Pathology of pregnancy. Toxaemias
.923	Plague	.4	Normal labour
.924	Relapsing fever	.5	Abnormal labour
.925	Epidemic cerebrospinal meningitis	.6	Normal puerperium
.926	Epidemic encephalitis (lethargica)	.7	Puerperal disorders, fever, etc.
.927	Typhoid fever		
	Paratyphoid	619	<b>VETERINARY MEDICINE. VETERINARY SCIENCE</b>
.928	Yellow fever		<i>Subdivide like 636 and by sign of Relation : with appropriate subdivision of 61. Classify here only comparative medicine in general and everything that concerns the anatomy, physiology, pathology and treatment of domestic animals. The same matters concerning other animals are classified under 59 Zoology</i>
.931	Diphtheria		
.932	Cholera		
.934	Epidemic diarrhoea. Sprue		
.935	Dysentery		
.936	Malaria		
.937	Trypanosomiasis. Sleeping sickness		
.94	Septicaemia. Blood poisoning		
.942	Erysipelas		
.946	Tetanus		

## 62 Engineering

620	<b>GENERAL QUESTIONS</b>	620.179	Other tests. Welding and adhesion tests
62.001/.004	Points of view. <i>Subdivide like .001/.004. See Common Auxiliary Numbers of Point of View (pp. 116-17)</i>	.1	Non-destructive tests
620.1	<b>TESTING MATERIALS. FAULTS IN MATERIALS</b>	620.18	<b>Metallography. Etching. Analysis of grain structure</b>
	<i>The special subdivisions -1/-9 given in 621 Construction of machines are applicable throughout 620.1</i>	620.19	<b>Defects and deterioration in materials. Corrosion and erosion</b>
.0	<i>Special Auxiliary Numbers</i>	.191	Surface defects. Corrosion in general
.05	Apparatus. Research machinery	.192	Internal defects in material and their investigation
.08	Measurements. Measuring instruments. <i>Subdivide like 53.08</i>	.193	Defects due to physical or chemical action. Resistance to attack
		.197	Protection against corrosion and other influences
620.11	<b>Preliminary investigation of materials. Sampling. Test bars</b>	.199	Accelerated testing
620.16	<b>Technological testing. Tests in which the practical conditions are imitated</b>	620.2	<b>MANUFACTURED PRODUCTS IN GENERAL</b>
620.17	<b>Physico-technological investigation. Tests of strength</b>	620.4	<b>POWER STATIONS</b>
.171	Generalities. Recording methods. Test conditions		<i>Classify here only general studies</i>
.172	Tensile tests	620.9	<b>GENERAL ECONOMICS OF ENERGY</b>
.173	Compression tests	.91	Sources of energy. Natural sources of energy
.174	Bending tests	.92	Potential uses of various sources of energy
.175	Torsion tests	.93	Application of mechanical, chemical, chemico-physical and physical energy in general
.176	Shearing tests	.95	Application of biological energy
.177	Folding tests	.96	Application of human physical energy
.178	Hardness tests. Durability tests. Subjection to a combination of influences		
.3	Fatigue tests		
.7	Impact tests		

620.97	Application of residuary energy. Recuperation of energy	621-3	Valve gear parts. Valve motion
.98	Selection of a source of energy for a specific purpose. Selection of motive power	-31	With to and fro motion. Slide valves. Sleeve valves
		-32	With rotary movement. Rotary slide valves
621	<b>MECHANICAL ENGINEERING. ELECTRICAL ENGINEERING</b>	-33	With lift motion. Poppet valves
		-34/-38	Regulation. Drive for valve gear
621-0/-9	<b>MACHINERY AND APPARATUS</b>	-39	Closing devices, etc.
	<i>Special Auxiliary Numbers. These Auxiliary Numbers can be applied throughout 62/69 to indicate machine parts</i>	-396/-397	<i>Subdivide like 621.646/.647</i>
		621-4	<b>External shape of products or of semi-manufactured products and surfaces to be treated. Not for application to 621.4; 623; 629.1</b>
621-05	<b>Machinery and apparatus divided according to users</b>	-41	Flat surfaces. Plates. Blocks. Sheets. Strips
		-42	Sections. Rods. Wire
621-1	<b>General characteristics of machinery and apparatus</b>	-43	Articles and surfaces of various shapes. Prisms. Cylinders. Cones. Faces. Chamfers. Streamlined forms, etc.
-12	With reciprocating motion	-44	Shaped pieces from templates or patterns
-13	With rotary or oscillating motion	-45	Grooves. Slots. Grooved objects
-133	Rotary machinery and apparatus in general	-46	Tubes. Hollow objects
-135	Turbine machines in general	-47	Holes. Bores. Ring-shaped, barrel-shaped, wheel-shaped objects
-14/-15	Grouping of machinery and apparatus according to the mode of action of the working fluids	-48	Special shapes. Gear teeth
		-49	Other forms. Grains. Powder. Fibres. Chips
-14	Piston machines according to mode of action of the working fluids, single or double acting, 2 or 4 stroke, etc.	621-5	<b>Operation, adjustment and control</b>
-146	Action of the working fluid by stages. Compound action	-51	Generalities on control and driving parts
-15	Turbine machines according to the mode of action of the working fluid. Reaction. Axial, radial, tangential, flow or impulse	-52	Automatic controls
		-53	Regulating and adjusting mechanism
-16/-17	Grouping of machines in general according to use of the working fluid. Expansion stages, condensation, etc.	-54	Mode of regulation. Parts between the regulator and the point at which it operates
		-55	Governors
-168	Back pressure, clearance	-56	Control by inertia, by buffer effect motion. Compensation. Governing by direct action of the machine
-176	Engines driven by vapours other than steam	-57	Starting. Coupling. Starters. Clutches
-18	Dimensions, velocity and other properties	-58	Speed control. Reversing, accelerating and retarding devices
		-59	Braking and stopping devices
621-2	<b>Fixed and movable parts</b>	621-6	<b>Features and characteristics according to the fuel used</b>
-21	Fixed parts. Foundation. Bed plates		
-22	Fixed parts of moving elements. Cylinders. Passages. Ducts	621-7	<b>Servicing, safety, assembly and maintenance devices. Machinery operation and maintenance</b>
-229	Tool holders. Work holders		Cooling
-23	Drive mechanism. Power transmission. Connecting rods. Guides	-71	Lubrication
-231	Gear systems	-72	Purification of fuel and of auxiliary substances. Filtering
-232	Connecting rods, coupling rods, cranks	-73	Protection relative to the site
-233	Rotating parts, axles, shafts, journals, knife edges	-74	Deformation and protection against it
-234	Special methods for converting linear into rotary motion. E.g. Swash plates, cam discs, etc. <i>For crank shafts and eccentrics, see 621-233</i>	-75	Defects caused in assembling
		-751	Shock, oscillation and vibration damping devices
-235	Flexible transmissions. <i>Subdivide like 621.85</i>	-752	
-237	Cranes and lifting tackle as part of the machine. <i>Subdivide like 621.87</i>	-753	Influence of natural forces and ambient conditions
-238	Fastening devices. <i>Subdivide like 621.88</i>	-754	Influence of axial shocks, compensation
-24	Parts with reciprocating motion	-755	Counterbalance of moving masses
-242	Pistons	-756	Defects due to and protection against overloading
-25	Rotary parts. Drums. Turbine wheels	-757	Precautions against stones, snow, barnacles and other extraneous factors
-26	Oscillating parts	-758	Boxes, casing, shields and similar protective devices
-27	Parts oscillating elastically		Other safety devices
-272	Springs	-759	Protection of parts
-28	Surfaces	-76	

621-762	Devices for making watertight connections	621.2	WATER POWER. UTILIZATION OF HYDRAULIC ENERGY
-77	Devices to facilitate assembly, maintenance or repairs	621.2.01	Theory
-78	Devices for protection of staff and of the public	.09	Sources of water power
-781	Protective installations in general	.21	Waterwheels in general
-783	Protective devices against accidents while at work, guards, etc.	.22	Overshot waterwheels
-784	Protective devices against sickness, air purification	.23	Backshot, middleshot and undershot waterwheels
-785	Devices for protection of persons not operating the machinery, e.g. passengers	.24	Hydraulic turbines
-786	Clothing protectors	.25	Hydraulic pressure machinery. Force pumps. Pressure accumulators. Hydraulic pressure conduits
-788	Special safety devices for vehicles and ships	.26	Hydraulic drive of presses
-79	Measuring and counting devices, etc. Other devices	.27	Hydraulic rams
-8	<b>Machinery or apparatus classified according to the motive power used</b>	.28	Other forms of hydraulic energy. Energy of wave beat, of tides
-81	Steam-driven	.29	Complete hydraulic power plants. Devices for the storage of water power
-82	Hydraulic-driven	621.3	ELECTRICAL ENGINEERING. ELECTRICAL INDUSTRY
-83	Electric-driven	621.3.0	<i>Special Auxiliary Numbers</i>
-84	Internal combustion engine, driven	621.3.01	<b>General studies. Definitions. Notation</b>
-85	Pneumatically driven	.011	Fundamental formulae and quantities
-86	Mechanical, e.g. spring action	.012	Diagrams and characteristics
-87	Muscular. Manual	.013	Magnetic fields. Excitation. Inductive and capacitive interference
-88	Various methods of coupling	.013.4	Armature reaction
621.01	MECHANICAL ENGINEERING IN GENERAL. THEORY	.014	Current. Current distribution. Growth and decay of current
621.03	TECHNICAL PHYSICS	.3	Short circuit. Over-current
.039	<i>Collective works only</i>	.6	Leakage current
621.08	PRIME MOVERS	.7	Fault current
.086	Purely mechanically driven prime movers. Spring motors. Motors driven by weights	.015	Voltage. Voltage distribution. Rise and decay of voltage. Voltage drop
.087	Machines driven by muscular power. Treadmills, etc.	.3	Over-voltage. Surges. Transients
621.1	STEAM. STEAM ENGINES. BOILERS	.5	Disruptive voltage. Corona. Glow
	Production, distribution and utilization of steam power, steam engines, steam boilers	.016	Torque. Power. Load. Energy
621.1.01	Theory. Applied thermodynamics	.017	Losses. Heating. Efficiency
.11	Steam engines in general	.018	Phase. Frequency. Oscillations
.12	Marine engines	.1	Phase
.13	Railway steam locomotives	.12	Phase angle. Phase difference
.14	Steam tractors. Steam rollers	.14	Power factor
.15	Semi-portable steam engines. Steam road-locomotives	.3	Harmonics
.16	Stationary steam engines	.4	Frequency. Slip
.161	Reciprocating engines	.41	Frequency
.165	Steam turbines	.6	Mechanical oscillations. Falling out of step. Hunting
.166	Rotary piston steam engines	.7	Wave form. Distortion
.17	Working of steam plants. Steam. Condensation. Condensers. Coolers. Bursts	621.3.02	<b>Type and range of current, voltage, resistance. Frequency range</b>
.18	Steam boilers. Evaporators. Preheaters	.021	Weak current
.181	Types of steam boilers. Boiler plants	.022	Heavy current
.182	Boiler-houses. Maintenance. Firing	.023	High-frequency current
.183	Steam boiler accessories. Safety and servicing devices	.024	Direct current
.185	Boiler erection. Bricking in	.025	Alternating current
.186	Distribution and circulation of steam. Use of exhaust steam. Accumulators. Insulation	.027	Voltage range
.187	Boiler attendance. Boiler supervision	.028	Resistance
		.029	Frequency range
		.3	Audio-frequency
		621.3.03/.09	<i>Analytical subdivisions ordinarily applicable to particular sections of electrical engineering</i>
		621.3.03	<b>Individual parts of lamps, discharge tubes, electronic equipment, electro-chemical apparatus and furnaces</b>
		.032	Individual parts of lamps, discharge tubes and electronic apparatus
		.1	Filling

621.3.032.2	Electrodes. Grid	621.314	Transformation. Transformers. Convertors. Rectifiers. Amplifiers
.3	Filaments	.1	Direct-current (d.c./d.c.) transformation
.7	Bulbs	.2	Alternating-current (a.c./a.c.) transformation. Transformers
.035	Individual parts of equipment in electrochemical industry	.25	Phase convertors
.1	Vessels. Tanks	.26	Frequency changers
.2	Electrodes	.27	Simultaneous phase- and frequency-changing by grid-modulated convertors
.4	Electrolytes	.5	Convertors
.036	Individual parts of furnaces	.6	Rectifiers
.5	Casing		
.6	Electrodes	621.315	Transmission. Transmission and distribution lines. Conductors. Insulating materials. Insulators. Wiring. <i>See also</i> 621.316.1; 621.316.26; 621.316.9
621.3.04	Component parts, insulation and windings of machines and transformers	.1	Overhead lines
.042	Magnetic circuit	.2	Cables
.043	Armature	.3	Insulated wires
.044	Field-magnet system	.5	Conductors. Conducting materials
.045	Windings	.6	Insulation
.047	Current collection. Commutators. Brushes	.61	Insulating materials
.048	Insulation	.62	Insulators. Bushings
621.3.05	Transmission. Transmission lines	.66	Poles. Pylons. Masts
.051	Power transmission in general	.67	Conduits. Boxes
.052	Choice of system	.68	Joints
.056	Mechanical stresses in overhead lines. Sag	621.316	Distribution. Switchgear. Regulation. Protection. Control
621.3.06	Switching. Switches. Circuit-breaking	.1	Distribution networks
.062	Methods of switching, of connection	.2	Power supply to the network
.064	Switching operations. Circuit-breaking in general	.26	Substations
.066	Design and mechanism	.3	Switchgear in general
621.3.07	Regulation	.34	Switchboards
.072	Regulation of electrical quantities	.35	Busbars
.073	Regulation of magnetic quantities	.5	Switches. Circuit-breakers
.076/.077	Methods of regulation	.7	Regulation. Regulators. Starters. Brakes. <i>See also</i> 621.398
.078	Automatic regulation	.72	Regulation of electrical quantities
621.3.08	Measurement. Instruments	.727	Power-factor correction
.081	Units. Constants	.728	Load regulation
.082	Principles of measurement	.729	Synchronization
.083	Methods	.8	Resistors. Rheostats
.084/.085	Details of instruments	.9	Protection
.088	Errors. Correction of errors	.923	Fuses
621.3.09	Transmission theory	.925	Relay protection
621.31	Electrical engineering in general	.933	Surge diverters. Protective gaps
621.311	Power generation and supply. Power stations	.935	Current-limiting reactors. Earthing reactors. Arc-suppression coils
.1	Supply networks. Electrification	.936	Protective capacitors
.15	Output of power station. Load	.98	Lightning conductors
.16	Utilization of excess energy	.99	Earthing
.161	Interconnection		
.2	Power stations	621.317	Measurements. Measuring instruments. Indicators. Tariffs. <i>See also</i> 537.7
.21	Hydro-electric power stations	.2	Equipment of electrical laboratories. Laboratories for testing, calibration, etc.
.22	Steam power stations	.3	Measurement of electrical quantities
.23	Power stations with other heat engines as prime movers	.31	Current
.24	Wind power stations	.32	Electromotive force. Potential. Voltage. Voltage gradient
621.312	Development of means for supply and utilization of electricity. Electro-industry	.33	Resistance. Impedance. Inductance. Capacitance
621.313	Electric machines. <i>To specify individual parts of electric machines (field, armature, windings, etc.) use the subdivisions under 621.3.04</i>	.333	Insulation testing
.12	Generators in general. <i>See also</i> 621.319.3; 621.319.5; 621.396.61	.35	Wave form
.13	Motors in general	.36	Frequency. Slip
.2	Direct-current machines	.37	Power factor. Phase difference. Phase sequence
.3	Alternating-current machines	.38	Torque. Power. Energy
.8	Magneto-electric machines	.39	Electrical measurement of non-electrical quantities

621.317.4	Measurement of magnetic quantities. Magnetic testing	621.365.3	Direct resistance heating
.49	Magnetic measurement of non-magnetic quantities	.33	Electrode boilers
.6	Determination of the relation between various quantities. Characteristics	.4	Indirect resistance heating. Resistor furnaces
.7	Electrical measuring apparatus. Meters. Oscillographs	.5	Induction heating. Induction furnaces
.8	Supply tariffs	.92	Dielectric heating
621.318	<b>Applied magnetism. Magnetic apparatus and materials. Coils. Relays</b>	.366	Electric ignition devices
.2	Permanent magnets	.367	Electrothermic treatment of metals. <i>See also</i> 621.791.7
.3	Electromagnets	.369	Various applications of electric heating. Heating appliances. Drying stoves
.4	Coils	621.38	<b>Electronics. Photocells. Discharge tubes. X-ray equipment. <i>See also</i> 615.84; 616-073</b>
.5	Relays	.383	Photocells. <i>See also</i> 535.215
.7	Filter circuits	.384	Production of active rays and corpuscular beams
621.319	<b>Applied electrostatics</b>	.385	Electronic discharge apparatus
.3	Electrostatic generators	.1	Discharge tubes in general
.4	Capacitors	.831	Amplifying valves
.5	Surge generators	.832	Cathode-ray tubes
.7	Electrostatic fields	.833	Electron microscopes
621.32/.39	<b>Specialized electrical technology</b>	.386	X-ray tubes and accessories
621.32	<b>Electric lighting equipment. Lamps. <i>See also</i> 621.3.032; 628.9</b>	.389	Other electronic apparatus
.325	Arc lamps	621.39	<b>Telecommunication</b>
.326	Incandescent lamps	.391	General
.327	Other electric lamps. Discharge lamps	.392	Theory of communication lines, networks, feeders, wave guides
.329	Accessories	.392.4	Two-terminal networks
621.33	<b>Electric traction</b>	.5	Quadripoles
.331	Electrification for traction purposes	621.394	<b>Telegraphy by wire</b>
.332	Supply lines. Distribution	.14	Codes
.333	Electric motors for traction	.2	Manual telegraphy by a special code
.335	Locomotives. Motor vehicles. Trucks. Tractors	.3	Automatic printing, multiple writing and other systems
.2	Locomotives	.4	Multiple telegraphy
.4	Passenger vehicles	.5	Long-distance telegraphy. Cable telegraphy
.5	Trucks. Vans. Tractors	.6	Apparatus
.336	Current collection. Current collectors. Accessories	.61	Transmitters. Senders
.337	Controls. Control gear. Controllers. Braking	.62	Receivers
621.34	<b>Electric drives apart from traction. Application of electricity to industry, agriculture, etc. <i>E.g.</i> 621.34:637.1 <i>Electric machinery in milk processing</i></b>	.63	Calling apparatus
621.35	<b>Applied electrochemistry. <i>See also</i> 541.13</b>	.64	Magnifiers and amplifiers. Repeaters
.351	Generation and storage of electrical energy by chemical methods in general	.65	Switching and distributing apparatus
.352	Generation. Primary cells	.66	Regulating apparatus
.355	Storage. Accumulators	.7	Installations. Lines
.357	Industrial applications of electrochemistry. Electroforming. Electro-deposition. Electroplating	.8	Quality of reception. Signal strength. Interference
.6	Electroforming	.9	Applications
.7	Electro-deposition. Electroplating	621.395	<b>Telephony by wire</b>
.8	Pickling. Colouring. Polishing. Anodizing	.2	Private telephone systems
.359	Industrial application of electrocapillarity. Electrical precipitation	.3	Public telephone systems
621.36	<b>Electric heating. Thermo-electricity</b>	.34	Automatic telephony
.362	Generation of electricity by heat. Thermopiles	.4	Multiple telephony
.363	Thermo-electric and thermomagnetic motors	.44	Carrier telephony
.365	Generation of heat by electricity. Electric furnaces	.5	Long-distance telephony. Cable telephony
.2	Arc furnaces	.6	Apparatus
		.61	Microphones. Transmitters
		.62	Receivers. Loud-speakers. Recording receivers
		.63	Calling apparatus
		.64	Repeaters. Amplifiers
		.65	Switching apparatus
		.66	Regulating apparatus
		.7	Installations. Telephone stations. Exchanges. Lines
		.73	Telephone lines
		.74	Grouping of lines and stations

.395.8	Quantity of reception. Signal strength.				
.9	Interference				
	Applications				Internal combustion engines. Charging.
		.06			Compression. Exhaustion
.396	<b>Radiocommunication</b>	.431			Exhaust. Exhaust gases. Silencers
.11	Propagation phenomena				Internal combustion and explosion engines. General considerations
.2	Systems of radiocommunication classified according to type of wave	.3			Generators and fuel tanks
.3	Systems for automatic radiotelegraphy	.7			Special applications
.4	Multiple transmission. Directional transmission	.71			Portable or semi-fixed engines
.44	Transmission by r.f. waves sent along a conductor	.72			Locomotive engines
		.73			Automobile engines
		.74			Marine engines
		.75			Aircraft engines
.5	Radiotelephony	.432			Construction of internal combustion engines. Two-stroke cycle, four-stroke cycle engines in general
.6	Apparatus and circuits				Gas engines working on coal-gas or methane
.61	Transmitters. Oscillators. Resonators. Oscillatory circuits	.433			Engines for vaporized liquid fuel
.611.1	Oscillatory-circuit characteristics	.434			Engines for solid fuel, for coal dust
.3	Coupled circuits	.435			Diesel engines. Semi-Diesel engines and the like. Glow-plug engines
.612	Capacitor discharge oscillators	.436			Diesel type engines with pre-combustion chamber
.613	Arc transmitters				Internal combustion engines with rotary or oscillating pistons
.614	High-frequency alternators				Gas turbines
.615	Valve oscillators	.5			
.619	Modulation				
.62	Receivers	.437			
.64	Amplifiers	.438			
.65	Radio links				
.66	Apparatus for control, regulation and protection	621.44/.49			<b>Other engines</b>
.663	Radiogoniometer. Radio-compass	.44			Engines for air and steam mixtures
.67	Aerials. Earths	.45			Jet propulsion engines. Rocket machines
.68	Power supply to valve transmitters and receivers	.47			Solar energy engines. Utilization of radiant energy
.7	Radio stations	.48			Other heat engines. Utilization of water, air or volcanic heat
.8	Quality of reception. Signal strength. Interference	.49			Application of other sources of energy
.9	Applications. Meteorological service. Communication with vehicles, ships, aircraft, etc. Broadcasting. Radar	.499			Application of various forms of chemical and physico-chemical energy
21.397	<b>Television. Electrical picture transmission</b>	621.5			<b>PNEUMATIC MACHINES, REFRIGERATION TECHNOLOGY</b>
.2	Transmission systems				Production, distribution and utilization of pneumatic energy. Compressors.
.3	Analysis and reconstruction of pictures. Scanning				Air pumps
.5	Television in general				Theory and general considerations
.6	Apparatus	.01			
.61	Transmitters	621.51/.54			<b>Pneumatic apparatus and machines</b>
.62	Receivers	.51			Compression of air and other gases. Compressors
.64	Amplifiers	.52			Rarefaction of air and other gases. Air pumps. Vacuum pumps
.7	Stations	.53			Conduction and distribution of compressed or rarefied air and other gases
.8	Quality of reception. Signal strength. Interference				Application of compressed or rarefied air. Compressed air engines
.9	Applications	.54			Pneumatic tools
621.398	<b>Telecontrol</b>				Wind-wheels. Wind-engines. Wind-mills
621.4	<b>INTERNAL COMBUSTION ENGINES, HEAT AND OTHER SPECIAL ENGINES OTHER THAN STEAM ENGINES</b>	.542			
		.548			
.41	Hot air engines	621.56			<b>Refrigeration</b>
.43	Internal combustion engines. Oil, petrol, paraffin and gas engines	.564			Refrigerating media. Refrigerating substances. Refrigerants
-4	Injection of fuel. Mixture formation and turbulence. Carburettor elements. <i>Special Auxiliary Numbers</i>	.565			Refrigerators. Refrigerating plant
.01	Theory	.57			Refrigerating machines
.03	Carburettors. Vaporizers. Fuel pumps. Injectors. Auxiliary equipment	.0			<i>Special Auxiliary Numbers</i>
.04	Ignition devices and methods	.01			Theory of refrigeration. Absorption and compression methods
		.04			Parts and accessories. Evaporators. Compressors. Condensers. Controls.
		.572/.576			Types of refrigeration machinery

621.573	Refrigerating machinery without liquids (Leblanc)	621.647.4	Rotary sprayers
.574	Compression refrigerating machines	.5	Fountains
.575	Absorption refrigerating machines	.7	Flushing apparatus
.576	Special refrigerating machines. Audiffren type. Vacuum type	.9	Various accessory devices for pipes, valves and taps
.578	Accessory devices. Simultaneous generation of cold and power	.92	Floats
.58	Ice manufacture	.649	Liquid raising devices other than pumps
.59	Apparatus for the production of intense cold and for liquefaction of gases. Containers. Cylinders for oxygen, hydrogen, etc.	.1	Dippers. Scoops
.592	Liquefaction of gases difficult to compress	.2	Well buckets
.593	Fractional distillation of liquefied gas mixtures	.4	Endless chain elevators
.595	Containers for transport and storage of compressed and liquefied gases and of solution of gases under pressure. Gas cylinders	.5	Archimedean screw apparatus, etc.
		.6	Bucket wheel elevators
		.7	Siphons
621.6	APPARATUS FOR CONVEYANCE AND STORAGE OF GASES AND LIQUIDS. CONDUITS AND PUMPS	621.65/.69	Pumps
.0	Generalities. <i>Special Auxiliary Numbers</i>	.65	Pumps with reciprocating pistons
.01	Theory	.658	Diaphragm pumps
.02	Conveyance of air and other gases	.66	Pumps with rotary or oscillating valves or pistons
.03	Conveyance of liquids	.67	Centrifugal pumps. Turbo-pumps
.05	Division according to the nature of the transfer. High and low pressure	.68	Special pumps. Measuring pumps. Separating pumps
621.61/.63	Blowing machines	.69	Raising by direct action of gas or steam
.61	Blowing machines in general. Bellows. Simple ventilators. Ventilators, jet and spray blowers	.693	Pulsometers
.63	Centrifugal ventilators. Exhausters. Fans	.694	Entrainment by jet. Injectors. Ejectors
621.64	Devices for conveyance and storage of gases and liquids in general	.695	Raising of liquids by mixing with air under pressure
.642	Reservoirs. Tanks	621.7	WORKSHOP PRACTICE
.1	Portable reservoirs. Pails. Casks		Individual processes in particular for metal
.2	On vehicles and vessels	621.71	Drawing offices: e.g. 621.71:744 <i>Technical drawing</i>
.3	Fixed reservoirs	621.72	Pattern making. Model making
.37	Underground reservoirs	621.73	Forges. Heavy and light forging
.643	Conduits. Pipes and accessory parts	621.74	Foundry work. Remelting
.1	Open conduits	.0	<i>Special Auxiliary Numbers</i>
.2	Closed conduits. Pipes	.03	Casting of special pieces. Tubes, compound casts, etc.
.3	Flexible pipes. Hosepipes	.04	Special foundry processes. Hard castings. Centrifugal casting. Die casting, etc.
.4	Flanges and connecting parts. Sleeves. Form pieces	.741	Kinds of foundry. Steel, iron, copper, light metals
.5	Tapping devices. Hydrants	.742	Preparation of moulding sand. Moulding sand and other moulding materials. Sandbeds
.644	Pipe lines	.743	Core making
.646	Parts for regulation, closure and security	.744	Moulding
.1	Closing devices in general	.745	Melting. Cupola furnaces. Melting crucibles
	<i>Particular parts of the apparatus are indicated by the special subdivisions of 621-3</i>	.746	Casting. Cast material
.2	Valves	.7	Casting flaws
.3	Flow regulators	.747	Dressing of castings. Finishing
.4	Pressure regulators. Safety valves. Pressure reducing valves	621.75	Tools and machinery manufacture. Fitting. Assembling
.5	Cut-off valves	.751	Preliminary treatment. Designing. Tracing
.6	Taps and cocks	.753	Tolerances. Fitting. Gauges
.7	Mixing valves	.1	Tolerance
.8	Various safety devices	.2	Fitting
.9	Accessories. Seatings. Thawing and cooling devices. Purification devices, etc.	.3	Gauges. Calipers
.647	Sprayers. Fountains. Flushing devices. Floats	.755	Finishing in general
.2	Spraying devices. Douches. Sprinklers	.756	Bench work
.3	Nozzles. Fire-hose nozzles	.757	Assembling. Assembly shops
		621.77	Manufacture of parts and of materials in special form, such as sheet, plate, tube, ball, wire, powder, etc. <i>Only for general questions</i>
		.771	Rolling and wire-drawing mills

621.772	Boiler works. Construction shops	621.8.03	Forms of energy to be produced, transmission, accumulation, conversion and control of mechanical forces and resistances; e.g. utilization of kinetic energy
.773	Workshops for cutting processes. Turning shops. Drilling shops. Cutting shops. <i>Subdivide like 621.9 Machine tools</i>		
.774	Pipe manufacture	621.81	<b>Machine elements.</b> <i>Classify here comprehensive studies. The elements for special machinery are designated by means of the subdivisions 621-1/-8. See also 531.8 Theory of machines. Technical mechanics</i>
.1	Manufacture of cast pipes		
.2	Manufacture of soldered and brazed pipes		
.3	Manufacture of seamless pipes		
.775	Manufacture of spherical objects, balls, shot, powders	621.82/.85	<b>Transmission parts</b>
.776	Manufacture of hollow objects other than pipes by extrusion	621.82	Shafting. Journals. Bearings. Couplings, etc.
.777	Treatment of sheet metal and pipes for special purposes	.822	Bearings. Axle boxes. Bushings
.778	Wire drawing and processing	.1	Generalities
621.78	<b>Heat treatment of metals. Hardening. Tempering. Annealing. Cementation</b>	.2	Collar bearings. Step bearings.
			Thrust bearings
.782	General arrangements for heat treatment	.3	Adjustable bearings
.783	Furnaces for heat treatment	.5	Sliding bearings
.784	Baths for hardening, tempering	.6	Rolling bearings in general
.785	Processes of heat treatment. Annealing. Hardening. Tempering. Control of cooling	.7	Ball bearings
		.8	Roller bearings
.787	Hardening by mechanical action	.9	Other bearings (Axle boxes)
.788	Electrical and magnetic hardening	.824	Axle trees. Driving shafts
.789	Structural modification by other processes	.825	Couplings
		.827	Cranks. Eccentrics. Connecting rods
621.79	<b>Various workshops and processes for treatment of metals</b>	.828	Hinges. Levers
.02	Preliminary treatment. Cleaning, etc. Dressing by sand blast. Chemical pickling	621.83	Gears. Racks. Cams. Slidebars
.791	Soldering. Welding. Cutting	.831	Theory of gears
.052	Welding	.833	Gearings. Toothed wheels. Pinions
.054	Cutting	.835	Cams. Ratchets. Racks
.056	Seam welding	.836	Guides. Slideways
.2	Oxidation prevention	.837	Eccentric gearing. Inclined planes.
.791.3	Soldering. Brazing		Wedge gearing
.5	Autogenous welding and cutting	.838	Starting clutches. Ratchets. Gear engagement and disengagement. Locking mechanisms
.6	Thermit welding	.839	Friction drive mechanisms. Electromagnetic friction drive devices
.7	Electrical welding and cutting	621.85	<b>Flexible transmission</b>
.8	Combined processes. Arc atomic welding	.852	Belting
		.854	Cable transmission
.9	Other welding processes	.855	Chain transmission
.793	Metal coating. Metallization	621.86/.87	<b>Hoisting and conveying machinery</b>
.794	Chemical surface treatment of metals. Mordanting, coloration, etc.	621.86	Means of lifting and transporting other than cranes and lifts
.795	Finishing. Various surface processes	.861	Pulley blocks. Tackle
.796	Depot, silo and warehouse equipment	.863	Lifting winches
.797	Repair shops	.864	Capstans. Windlasses
.798	Packing and despatch equipment	.865	Implements for lifting by hand. Levers.
.1	Containers. Cases. Casks, etc.	.866	Crowbars
.2	Packing materials. Fastenings	.867	Jacks. Winches. Gins.
.3	Filling devices		Conveyors for continuous delivery
.4	Packing processes and machinery	.1	Rake conveyors
.5	Fastening machinery. Fastening processes	.2	Belt conveyors
.6	Labelling	.3	Bucket conveyors
.7	Sealing. Branding, etc.	.4	Worm conveyors
.8	Cleaning the packing materials	.5	Chutes. Vibrating and other slide ways
.83	Sack cleaning machinery	.6	Roller conveyors
621.8	<b>MACHINE PARTS. HOISTING AND CONVEYING MACHINERY. POWER TRANSMISSION. MEANS OF ATTACHMENT. LUBRICATION</b>	.8	Pneumatic conveyance: tubes, etc.
.0	<i>Special Auxiliary Numbers</i>	.9	Centrifugal conveyors
.02	Transmission of motion in general; e.g. conversion of rectilinear into rotary motion and vice versa	.869	Various loading and unloading devices
		621.87	<b>Hoisting machinery</b>
		.873	Cranes in general
		.874	Travelling cranes
		.875	Load bridges
		.876	Lifts. Escalators
		.877	Mobile cable cranes
		.879	Spades. Dredgers. Excavators



621.88	<b>Means of attachment. Fastenings</b>	621.916	Universal milling machines
.0	<i>Special Auxiliary Numbers</i>	.917	Special milling machines
.087	Tools for fitting means of attachment	.918	Files. Filing machines
.088	Tools for removal of means of attachment	.919	Reaming machines. Broaching machines
.881	Bench vices. Spanners	621.92	<b>Polishing, grinding, sharpening, crushing, separating, sifting, pounding and mixing machines</b>
.882	Screws. Nuts. Washers. Bolts		
.082	System of screw threads. <i>Special Auxiliary Numbers</i>	.921	Grinding and polishing materials
.1	Threads in general. Dimensions	.922	Whetstones and polishing discs
.2	Bolts and screws	.923	Polishing and smoothing processes
.3	Nuts	.924	Grinding and polishing machinery
.4	Washers	.926	Machines for crushing hard substances
.5	Fastening for bolts and screws	.927	Grinding up of soft materials. Grinding devices
.6	Bolts		
.883	Spanners. Turnscrews. Screwdrivers	.928	Sifting and sorting devices. Centrifuges.
.884	Rivets. Riveting tools. Riveting processes	.8	Separation by floating
.885	Hooks. Eyelets. Suspension fixings.	.929	Magnetic separation
	Clamps. Eyebolts		Mixing and kneading devices
.886	Pins, cotters, etc.	621.93	<b>Saws. Cutting machines</b>
.1	Pins. Sprigs	.931	Sawing in general
.2	Nails	.932	Hand saws
.3	Clamps	.933	Longitudinal machine saws
.4	Pins. Spindles	.934	Circular saws. Drum saws
.5	Split pins	.935	Band saws
.6	Cotter pins. Keeper pins	.937	Cutters. Cutting tools
.7	Dowels. Plugs		
.8	Clamping wedges	621.94	<b>Lathes. Rolling mills. Drawing benches. Machines for wire and tube drawing</b>
.887	Rings		
.888	Hinges. Springs used as means of attachment	.941	Turning lathes
.2	Hinges	.944	Metal rolling and rolling mills
.4	Springs used as means of attachment	.946	Installations for wire drawing
.889.2	Cable stretchers. Wire stretchers	.947	Apparatus for tube drawing
.8	Bayonet connection		
621.89	<b>Lubrication</b>	621.95	<b>Drilling machines. Drills</b>
.892	Lubricants	.951	Generalities. Hand-drills. Reamers
.893	Anti-friction devices in general	.952	Drilling machines
.894	Devices to increase friction. Anti-lubrication devices	.953	Portable drilling machines
.896	Lubricating apparatus	.954	Milling and drilling machines
.899	Reclamation of oils	.957	Centring devices. Centre punches
		.958	Special drilling machines
621.9	<b>MACHINE TOOLS. TOOLS. OPERATIONS, IN PARTICULAR FOR METAL AND WOOD</b>	621.96	<b>Tools and machines for punching, blanking, striking, splitting, cleaving, stamping, stapling, etc.</b>
—4	External form of products and of the surfaces to be treated. <i>Special Auxiliary Numbers. For Subdivisions see 621-4</i>	.961	Blanking. Cutting out. Punching
.0	<i>Special Analytical Auxiliary Numbers</i>	.962	Blanking presses for working by hand
.01	Theory. Operation	.963	Mechanical stamping presses
.016	Treatment of the surface	.964	Punching machines. Stapling machines
.02	Special tools	.965	Shearing in general
.03	Nature of substances worked on	.966	Hand shears
.09	Combination of tools and machine tools. Universal machine tools	.967	Power shears
	<i>Tools which can be mounted on Machine Tools are classed under 621.9.091/099. Subdivide like 621.91/99</i>	.968	Splitting and slitting machines. Axes
		.969	Machines for breaking up scrap metal. Ingot breakers
621.91	<b>Planes. Planing, milling, slotting and filing machines. Reamers. Files</b>	621.97	<b>Tools and machines for beating, hammering, forging, compressing, coining, etc.</b>
.07	Shaping by shaving or filing in general	.07	Plastic shaping in general. <i>Special Auxiliary Numbers</i>
.911	Planes in general. Hand planes	.971	Hammers in general
.912	Planing machines	.972	Hand hammers
.913	Slotting and mortising machines	.974	Mechanical hammers
.914	Milling in general. Milling tools	.975	Forging presses
.915	Milling machines in general	.976	Riveting machines
		.979	Presses for compressing, shaping, squeezing, etc. Moulding machines
		621.98	<b>Machines for bending, pleating, beading, flanging, straightening, etc.</b>

621.981	Bending, pleating, beading and flanging machines	622.346.1	Chromium
.982	Straightening machines. Planishing machines	.348	Cobalt and nickel
.983	Tools for cold pressing. Drawing and draw press shaping by cold process. Swaging	.349	Platinum, aluminium, arsenic, antimony, bismuth, mercury, radium, rare earths
.984	Hot presses for large pieces	.2	Bauxite
.986	Cold shaping of cylindrical or spherical pieces of work by rolling, hammering, pressing, etc.	.35	Quarrying for rock and building materials
		.36	Mining and quarrying for various inorganic economic minerals and earths. <i>Subdivide like 553.6</i>
621.99	Screw cutting and tapping. Manufacture of screws and nuts	.37	Mining for precious stones. <i>Subdivide by means of sign of Relation : and subdivisions of 549</i>
.991	Generalities. Various operations	622.4	Accessory services in genera
.992	Screw cutting	.41/.46	Ventilation
.993	Tapping and cutting the threads of nuts	.41	Nature of gas encountered
		.42	Natural ventilation
622	<b>MINING</b>	.43/.46	Artificial ventilation
.0	<i>Special Auxiliary Numbers</i>	.43	Ventilation by fires and exhausters
.01	Theory. Classification of mines, pits and quarries	.44	Ventilation by blowers and fans
.03	Subdivisions indicating the character of the beds	.45	Ventilation conduits: shafts, galleries, doors, flaps
.04	Filling. Excavation	.46	Various ventilation devices
622.1	Investigation and prospecting; e.g. 622.1:526 Mining topography and cartography	.47	Lighting of mines
.19	Prospecting	.48	Other mining problems. Heating of shafts
622.2	<b>Mining processes and methods of working</b>	622.5	<b>Flow and drainage of mine water</b>
.22	Layout of the field. Concession area. Working plans. Opening up. Preparation	622.6	<b>Mining transport. Hoisting and haulage</b>
.23	Excavation by hand, by machine. Drilling. Excavation by explosives	.61	Transport at the working face
.24	Shafts. Plant and materials	.62	Underground roads and railways
.248	Mechanical breakdowns. Tool salvage. Catchers	.625	Underground mining railways. <i>Subdivide like 625; e.g. 622.625.28 Mine locomotives</i>
.25	Shaft sinking	.64	Continuous transport by horizontal or inclined ropeways
.26	Mine galleries	.65	Transport and haulage by men and animals
.27	Methods of working. Stopping. <i>For construction of pumps see 621.65/.69</i>	.66	Transport machinery
.28	Timbering. Lining of shafts and galleries	.67	Vertical conveyance. Hoisting apparatus. Ladders
.29	Various accessories of mines and shafts	.69	Surface transport. <i>See also 621.86/.87; 625; 629.1</i>
2.3	<b>Special kinds of mining</b>	.698	Transport by pipelines
.32	Exploitation of liquid and gaseous minerals	622.7	<b>Dressing of mining products</b>
.322	Exploitation of mineral sources	.0	<i>Special Auxiliary Numbers</i>
.323	Exploitation of mineral oil sources	.05	Treatment of the mineral products
.324	Exploitation of gaseous minerals	.06	Treatment of the separating medium
.33	Exploitation of organic minerals	.07	Treatment of the separated products
.331	Peat	.08	Main operations. Theory
.332	Lignite	.72	Sorting by hand. Hand picking
.334	Bituminous coal	.73	Crushing and grinding
.335	Anthracite	.74	Screening. Classification by screening
.336	Graphite	.75/.76	Separation with the aid of liquids and gases
.337	Bitumen. Asphalt. Oil shales. Mineral waxes. Ozokerite	.752	Sedimentation. Classifiers with weak current of water
.339	Other organic minerals. Amber	.753	Classifiers with rising liquid current. Current apparatus
.34	Mining for metals	.755	Apparatus and processes with a rotary current of water
.341	Iron and manganese	.762	Separation with a pulsating current of water
.342	Gold and silver	.763	Apparatus and processes with an essentially horizontal current of water. Chutes. Rheo washers
.343	Copper	.764	Tables
.344	Lead, zinc, thallium and cadmium	.765	Flotation
.345	Tin	.766	Separation by means of heavy liquids
.346	Chromium, molybdenum, tungsten, vanadium, niobium, tantalum and germanium	.767	Pneumatic separation
		.77	Various processes and apparatus
		.771	Mechanical processes

622.775	Processes of solution, of extraction by solvents. <i>See also</i> 669	623.42	Guns, construction, method of loading.
.776	Amalgamation	.421	Projectile throwers
.777	Electrical separation. <i>See also</i> 621.359	.422	Guns grouped by form and construction
.778	Magnetic separation	.1	Guns grouped by method of loading
.79	Various auxiliary operations and accessories	.2	Muzzle loading
.791	Chemical treatment. Disaggregation	.3	Breech loading
.792	Heat treatment. Roasting. Calcination.	.4/.5	Multiple barrel guns
	Decrepitation		Heavy machine guns. Automatic guns.
.793	Treatment of the liquid and of the residual liquids	.423	<i>See also</i> 623.442.4
.794	Elimination of the excess water. Drying.	.428	Gun barrel construction
	Separation of dust	.1/.3	Projectile throwers without explosives
.795	Mixing	.4	Spring guns. Air guns. <i>See also</i>
.798	Briquetting of minerals. <i>See also</i> 662.8	.6	623.442.8 <i>Air rifles</i>
622.8	Risks. Accidents. Safety measures	.8	Grenade throwers
.81	Firedamp explosions. Mine explosions	.43	Mine throwers
.82	Mine fires	.438	Aircraft bomb release gear. Bomb racks
.83	Rock pressure. Geodynamic phenomena		Gun carriages, mountings. Armoured
.84	Flooding	.2	fighting vehicles
.85	Damage to vegetation and to animals	.3	Armoured fighting vehicles. Armoured
.86	Accidents. Rescue	.5	trains
.88	Regulations for preventing damage	.44	Armoured cars
623	<b>MILITARY AND NAVAL ENGINEERING AND TECHNOLOGY.</b> <i>See also</i> 355/359		Tanks
623-2/-8	<i>Special Auxiliary Numbers</i>		Armoured trains
	<i>Subdivide 623-2, 623-5, 623-7 and</i>		Small arms. Portable arms. Means of
	<i>623-8 like 621-2, 621-5, 621-7 and</i>		protection
	<i>621-8 respectively. 623-4 subdivide like</i>		Bows, crossbows. Early firearms
	<i>623.4</i>	.441	Rifles, carbines, muskets
623.1	<b>Fortifications. Fortresses</b>	.442	.1 Muzzle loading
623.2/.3	<b>Field fortifications. Trenches. Mines</b>		.2 Breech loading
.2	Trenches. Mining		.3 Magazine rifles
.26	Military mines. Land mines		.4 Automatic rifles. Light machine guns
.3	Defence of trenches		.5 Anti-tank rifles, etc.
.38	Various obstacles. Barbed wire, traps, etc.		.6 Sporting guns
.39	Flooding	.8	Spring, air and electric rifles and pistols
623.4	<b>Ordnance. Guns and machine guns. Portable arms. Ammunition</b>	.443	Pistols and revolvers
.0	<i>Auxiliary numbers for special parts</i>	.444	Side arms. Shafted arms
.03	Cartridge magazines	.1	Halberts, pikes, partisans, etc.
.04	Bolts. Breech blocks	.2	Swords
.05	Sights and sighting mechanisms	.3	Bayonets
.06	Trigger devices. Ejectors and extractors	.4	Lances
.41	Artillery	.6	Dirks, daggers
.411	Early types. Bombards, culverins. Catapults	.445	Means of protection
.412	Weapons accompanying infantry	.1	Body armour
.2	Anti-tank guns	.2	Helmets
.3	Light howitzers. (Below 105 mm.)	.4	Individual protection against gas. Gas
.4	Trench weapons, trench mortars, etc.	.5	masks
	<i>See also</i> 623.428 <i>Projectile throwers</i>	.446	Shelters
.413	Light artillery. (Up to 4 in. or 105 mm.)	.45	Primitive weapons. Cudgels. Bows and
.2	Light field. Horse		arrows
.4	Mountain	.45	Ammunition. Pyrotechnic devices. War
.415	Medium, heavy field artillery. (Up to 6 in. or 155 mm.)		gases
.3	Howitzers. (Above 105 mm.)	.451	Projectiles. Shells. Bombs
.416	Heavy and super heavy artillery	.452	Explosive charges
.2	Siege. Fortress	.453	Artillery cartridges
.5	Railway	.454	Fuses. Detonators. Pyrotechnic devices.
.6	Long range	.9	Incendiary devices
.417	Naval and coast defence artillery	.455	Atom bombs
.418	Aircraft, anti-aircraft artillery	.458	Small arms ammunition
.2	Anti-aircraft	.459	Poisons. Bacteriological warfare
.4	Aircraft	.46	War gases. Chemical warfare
			Artillery and other instruments. Tools.
			<i>Subdivide by sign of Relation : and number</i>
			<i>of instrument concerned. E.g. 623.46:535</i>
			<i>Artillery optical instruments; 623.45:</i>
			<i>535.88 Military searchlights</i>
			Manufacture of ordnance equipment
			Care and maintenance. Testing. Accidents
		623.5	<b>Gunnery</b>
		.52/.53	Interior ballistics. Effects of powders.
		.54	Resistance
			Exterior ballistics

623.55	Gun laying. Range finding
.0	<i>Special Auxiliary Numbers</i>
.022	Artillery meteorology
.023	Artillery survey
.024	Observation. Ranging
.025	Fire control
.551/.553	Land service
.554	Naval
.555	Small arms
.558	Anti-aircraft
623.6	<b>Military engineering operations. Bridges.</b>
	Communications. <i>Subdivide by sign of Relation : and divisions of 624/627;</i>
	621.39; 654; 656
.66	Protection of works
.67	Obstructions
.68	Demolitions
623.7	<b>Military topography, aviation and camouflage</b>
.71	Military topography
.74	Military aviation. <i>See also 629.13</i>
.741/.743	Balloons. Airships
.746	Airplanes
.2	Reconnaissance
.3	Fighter
.4	Fighter-bombers. Bombers
.748	Balloon barrages
.77	Camouflage, etc.
.773/.774	Camouflage
.775	Artificial fog. Smoke screens
.776	Black-out
.777	Dummy constructions
623.8/.9	<b>NAVAL ENGINEERING</b>
	<i>Note: By use of the hyphen the divisions of 623.9 can be used as analytical subdivisions of 623.8. E.g. 623.827-94 Gun installations in submarines. The special auxiliary numbers of 629.12 may be used here</i>
623.8	Naval construction
.81	Naval yards and docks
.82	War vessels
.821	Battleships
.822	Cruisers
.823	Destroyers. Submarine chasers
.824	Gunboats. Monitors
.825	Torpedo boats
.826	Sloops. Scouts
.827	Submarines
.828	Transports. Hospital ships
.829	Minelayers and sweepers. Small craft.
	River gunboats
.83	The hull and accessories
.84	Masts and rigging for war vessels
.85	Machinery for war vessels. <i>See also</i>
	621.12; 621.18; 629.12
.9	Protection and armament of war vessels
.91	Armour and armour plating
.92	Watertight compartments
.93	External protection. Torpedo nets
.94	Gun installations, turrets, etc.
.95	Underwater defences. Mines. Mine-sweeping
.96	Torpedoes. Torpedo tubes
.97	Destructive devices used by the navy.
	Fireships. Depth charges. Submarine nets, etc.
.98	Application of science to naval matters.
	Indicate by sign of relation : and the number of the particular science. E.g. 623.98:621.395 Telephones in the navy

624	<b>CIVIL ENGINEERING</b>
624.0	<i>Special Auxiliary Numbers. See also 69.02/.07</i>
	<i>Note: The auxiliary numbers .01 should be restricted for internal use</i>
624.01	<b>Classification of construction works according to building material</b>
.011	Structures of organic material
.1	Timber structures
.011.2	Timber structures supported by other material
.012	Masonry and ceramic structures
.1	Natural stone
.2	Brick
.3	Cement and concrete
.4	Reinforced concrete
.5	Jointing materials
.6	Structural glass
.8	Loam, earth, ceramic materials
.013	Metal structures on masonry foundations
.2	Steel with masonry foundation
.014	All-metal structures
.2	Steel
.25	Welded
.27	Tubular structures
.015	Structures in a single material
.016	Various structures in mixed materials
.5	Concrete framed construction
.7	Steel framed construction
624.02	<b>Parts of structures</b>
.022	Walls
.31	External walls
.33	Wall projections. Cornices. Gables.
	Balconies. Bays
.5	Partition walls
.6	Cavity walls
.9	Wall details
.99	Wall openings
.023	Vaults. Arches. Framework. Roof and other trusses. Bracings. Bearings
.6	Vaults and arches
.8	Roof trusses. Details
.81	Parts of timber roof trusses
.82	Parts of roof trusses of concrete
.83	Parts of roof trusses of steel
.85	Statics of trusses
.86	Plane construction
.87	Three-dimensional construction
.88	Bracing. Longitudinal bracing.
	Transverse bracing
.93	Types of beams, girders, joists
.94	Bearings. Hinges. Anchorages
.024	Roofs. <i>See also 624.023.81/.85; 624.91; 695</i>
.2	Pitched roofs
.3	Flat roofs
.4	Dome shaped and vaulted roofs
.9	Parts of roofs. Roof openings
.025	Floorings. Floors. Ceilings
.3	Floorings
.4	Suspended floors and ceilings
.026	Stairs. Lifts. <i>See also 621.876</i>
.027	Chimneys. Ventilation shafts
.028	Doors, windows, gates and accessories
.1	Doors, gates
.2	Windows
.8	Fencing
.029	Various supports fixed to structures
	Flagstuffs
624.03	<b>Position and layout of structures</b>
.032	Dimensions

624.033	Dismountable, transportable, temporary structures	.6	Hinges
.034	Structures upon, in or by water	.8	Stiffeners
.035	Structures in the mountains		
.036	Layout and basic form of building works. Straight, skew, curved, etc.	624.1	<b>EARTHWORK. FOUNDATIONS. SUB-STRUCTURE. TUNNELLING</b>
624.04	<b>Examination and calculation of parts of structures</b>	624.11	<b>Earthwork and foundations in general</b>
.041	Choice of general design. Statics of structures in general	624.13	<b>Earthwork</b>
.042	Calculation of load. Dead and live loads	.131	Soil mechanics. Structural soil technology
.043	Determination of dimensions. Condition of stress	.2	Classification of soils
.044	Computation of deformations. Measuring deformation	.3	Soil examination
.045	Computation of weights	.4	Properties of the soil
.046	Carrying capacity. Factor of safety	.5	Statics. Dynamics
624.05	<b>Construction and methods of construction</b>	.6	Ground water
.051	Selection of site. Examination of the soil. <i>See also</i> 624.131	.132	Soil displacement in general
.052	Construction of approaches to bridges, tunnels, etc.	.133	Excavation
.053	Selection of method of construction. Determination of main dimensions	.134	Cuttings. Trenches, etc.
.054	Determination of clearance	.135	Fills. Levelling
.055	Preparation of the building site. Excavation. Transport	.136	Embankments. Cofferdams
.056	Preparation of the structural parts	.137	Securing of earthworks. Berms. Piles
.057	Erection. Assembly. Scaffolding	.138	Soil stabilization
.5	Shuttering	624.15	<b>Foundations</b>
.6	Scaffolding. Trestles and ladders	.151	Generalities. Foundations in the dry
.7	Vertical transport	.152	Earthwork and excavation for foundations
.8	Horizontal transport	.153	Footings. Beam and arch foundations, etc.
.058	Site tests. Site experiments	.154	Pile foundations in general
.059	Maintenance, damage, repair. Strengthening, transferring, demolition	.155	Piles. Pile driving
.1	Maintenance	.156	Grillage foundation. Special types of foundation in the dry
.22	Damage	.157	Foundations under water
	<i>E.g. 624.059.22:623.68 War damage</i>	.1	Cofferdam
.25	Repair. Reconstruction	.2	Open caissons
624.07	<b>Structural elements in general</b>	.3	Pneumatic caissons
.071	Elements for taking only an axial stress. Ropes. Rods	.4	Foundations by freezing
.072	Elements for taking bi-axial stress	.5	Foundations by compressed air
.2	Elements under bending stress. Girders. Beams. Various forms of support	.6	Shaft (well) foundations
.3	Elements under bending and axial stress (other than buckling). Arch construction	.7	Steel tubular foundations
.33	Frames	.8	Direct foundations under water
.4	Curved members	.159	Other problems concerning earthwork
.073	Slabs	.1	Special type of foundations, e.g. earthquake resisting
.074	Tridimensional structures	.3	Protection against underwashing. Stone filled facies
.1	Bridges	.4	Strengthening of existing foundations. Underpinning
.2	Domes	624.16	<b>Abutments and piers</b>
.3	Skew arches	.164	Abutments
.5	Trussless roofs	.166	Piers
.6	Piers. Spires	624.18	<b>Special protective works and improvement in mountainous country</b>
.7	Special structures (containers, etc.)	624.19	<b>Tunnelling</b>
.075	Elements whose condition of stress must be checked for stability	.192	Mountain tunnels
.2	Under buckling stress. Columns	.193	Underground tunnels
.3	Lateral stiffness	.194	Underwater tunnels
.4	Buckling of slabs	.196	Other tunnels. Culverts, siphon tunnels, canal tunnels
.078	<b>Calculation of connections of structural parts, bearings, hinges and stiffeners</b>	624.2/.8	<b>BRIDGE CONSTRUCTION</b>
.1	Rivet connection	624.21	<b>Bridges in general.</b>
.2	Bolted joints		<i>E.g. 624.21:623.6 Military bridges</i>
.3	Welded joints		:625.1 <i>Railway bridges</i>
			:625.745.1 <i>Road bridges</i>
			:625.745.11 <i>Foot bridges</i>
			:626.1 <i>Canal bridges</i>
		624.21.01/.07	<b>Bridge parts. Calculations, etc. <i>Special Auxiliary Numbers. Subdivide like</i></b>
			624.01/.07

64.21.09	Girders. Bearings. Deck. Footway. Parapets	625.155	Transfer tables. Traverses
.27	Girder bridges	.156	Buffer stops. Blocks. Sand-drags.
.28	Trussed girder bridges	.16	Scotchblocks
.3	Trussed bridges. Cantilever bridges		Accessory equipment. Level crossings.
.4	Tubular bridges of steel or reinforced concrete	.17	Protection against snow, etc.
.5	Suspension bridges	.18	Maintenance and renewal. Care of the track
.6	Arch bridges		Location and number of tracks. Profile.
.61	Timber arch bridges		Character of the track (straight, curved, etc.)
.62	Masonry arch bridges		
.621	of natural stone	625.2	<b>Railway rolling stock</b>
.624	of reinforced concrete	.01	Parts of vehicles. <i>Special Auxiliary Numbers. Subdivide as 629.11.01</i>
.63/.67	Iron and steel bridges		Cross section of vehicles
.68	Hinged arch bridges	625.22	Passenger coaches
.69	Other arch bridges	.23	Freight wagons. Special trucks
.7	Bridges of mixed or special construction	.24	Trolleys
.74	Bridges with elevated roadway and lifts	.249	Repair shops for carriages and wagons
.8	Movable bridges	.26	Accessory equipment. Loading and transport devices
.82	Drawbridges and bascule bridges	.27	Traction. <i>See also 621.13; 621.33; 621.431.72; 622.65</i>
.83	Swing bridges		Locomotives
.84	Lift bridges	.28	Rail motor cars. Motor train sets.
.85	Rolling bridges		Articulated motor trains
.86	Ferrybridges	.282	Motor buses on rails
.87	Boat, raft and pontoon bridges	.285	
624.9	<b>STRUCTURAL ENGINEERING</b>	.286	
.91	Roof trusses. Large span roof construction. <i>See also 624.023.8</i>	625.3/.5	<b>Special types of railways</b>
.92	Structures of masonry, concrete or reinforced concrete	.31	Narrow gauge mountain railways
.93	Structures of several materials (timber, steel)	.311	Gauge from 1000 to 1435 mm.
.94	Structures of steel only. One-storied structures for industrial and other purposes	.312	Gauge under 1000 mm. Decauville railways
.95	Various steel structures. Containers for goods in bulk	.32	Adhesion railways for steep gradients
.97	Towers. Masts	.33	Rack railways
625	<b>TECHNIQUE OF TRAFFIC ROUTES ON LAND. Railways and tramways. Roads and streets</b>	.35	Broad gauge railways
.0	<b>Generalities. <i>Special Auxiliary Numbers</i></b>	.36	Moving platforms. <i>See also 621.876 Lifts. Escalators</i>
.03	Forces and movements occurring in the contact between vehicle and track. Adhesion stresses developing from them. Wear and tear	.37	Remote controlled railways
.04	Various influences upon roads and tracks	.39	Other railways of special type
.06	Binding materials and their use	625.4	Elevated railways and underground railways
.07	Mineral construction materials	.41	Elevated railways
.08	Machinery and equipment for road construction. Finishing. Alteration	.42	Underground railways
625.1/.6	<b>RAILWAYS AND TRAMWAYS</b>	.43	Telephers, suspended railways and cableways
625.1	<b>Railways in general. Railway construction</b>	.44	Monorailways
.11	Railway surveying and location	625.5	Cable traction railways. Funiculars
.12	Formation. Foundations. Drainage		
.14	Track	625.6	<b>Light railways. Tramways</b>
.141	Ballast	.61	Light railways. Inter-urban railways
.142	Sleepers	.62	Tramways. <i>To classify special studies concerning tramways combine 625.62 by means of sign of Relation : with the subdivisions of 625.1/.2</i>
.143	Rails. Rail fastening		
.144	Track laying		
.145	Track aligning equipment		
.15	Station and track lay-out. Junctions		
.151	Turnouts. Switches		
.152	Rail crossings		
.153	Double slip roads		
.154	Turntables. Sector tables		
625.7/.8	<b>ROADS</b>	625.7	<b>Roads in general. Road construction</b>
625.7	<b>Roads in general. Road construction</b>	.71	Kinds of thoroughfare classified according to their importance and purpose
.71		.711	Cross-country roads
.711		.1	Main roads
.1		.2	Secondary roads. Lanes
.2		.3	Special motor roads
.3		.4	Bicycle tracks
.4		.5	Footpaths. Bridle-paths
.5		.6	Pavements for pedestrians
.6		.7	Riding tracks
.7		.712	Urban roads. Streets
.712		.714	Quays. Canal roads
.714		.72	Surveying and plotting
.72			

625.73	Details of roads. Dimensions. Alignment	626.8	Agricultural hydraulics. Irrigation. Drainage. Fishery works. E.g. 626.8;631.4 <i>Soil science and soil research related to agriculture</i>
.731	Foundation. Formation		Significance of water for agriculture
.732	Cross sections		Irrigation
.733	Raised footpaths along main roads	.80	General theory. Water supply
.734	Pavements. Platforms. Refuges	.81/.85	Irrigation ditches and canals
.735	Ditches	.81	Pumping installations
.736	Slopes	.82	Methods of irrigation. Permeation. Spraying, etc.
.739	Forks. Cross roads. Traffic centres	.83	Irrigation for different soils and crops
.74	Method of construction. Accessory works	.84	Drainage
.741	Road construction in general		Preliminary draining
.745	Accessory works. Water diversion. Drains. Gullies. Signposts. Milestones	.85	Drainage by open canals
		.86	Drainage by closed canals. Mole drainage
.746	Other accessory works with reference to use of road by traffic. Devices for traffic regulation. Traffic signs	.86.04	
		.861	Reclamation of marshes, etc.: hydraulic engineering point of view
.748	Various equipment not specifically concerning traffic. Kiosks. Public conveniences. Seats, etc.	.862	Special hydraulic works for fish breeding
		.87	
.75	Treatment of road surface. Oiling. Tarring. Asphaltting	.88	
.76	Maintenance and cleansing of roads and highways. Care of the highway	626.9	Maritime canals. Ship-canal
.77	Roadside plantation		
.78	Services under the road. Pipe lines. Cables. Drainage	627	NATURAL WATERCOURSES, RIVERS, PORTS AND ROADSTEADS
.79	Projecting structures	627.1	Natural watercourses
625.8	Paving of roads and highways	.11	Origin of the watercourse. Basins
.81	Primitive roads. Sand, gravel roads	.12	Sources
.82	Stone paving. Brick paving	.13	Watercourses in general. Measurement. Calculation of fall. Current velocity
.83	Wood paving. Cork paving	.14	Current acceleration. Mountain streams
.84	Concrete roads	.15	Rivers and streams
.85	Asphalt paving	.16	River mouths. Improvement works
.86	Crushed stone roads. Gravel roads	.17	Lakes
.87	Various road pavings. Metal. Glass, etc.	.18	Banks
.878	Rubber paving	627.2	Ports and roadsteads. Coast works. Marine works
.88	Footpaths. Kerbs		Different kinds of ports according to situation and purpose
.89	Other pavement work	.21	General conditions for port design. Hydraulic and geological conditions
625.9	OTHER MEANS OF LAND TRANSPORT	.22	Parts of ports. Main parts. Roadsteads. Mouth. Breakwaters. Wet dock
.91	Railways for ships	.23	Execution of marine works
.92	Ropeways. Aerial ropeways	.24	Deterioration of marine works. Corrosion. Damage by marine animals, etc.
		.26	
626/627	HYDRAULIC ENGINEERING		
626	GENERAL HYDRAULIC ENGINEERING. INLAND NAVIGATION. WATERWAYS	627.3	Port equipment. Installations
.0	<i>Special Auxiliary Numbers</i>	.31	Floating docks
.01	Scientific bases of hydraulic engineering	.32	Docks and warehouses
.02	Underwater work in general. Divers' work	.33	Quays and quay walls
.025	Diving dress	.34	Apparatus for mooring ships. Bollards. Mooring buoys. Means of landing
626.1/.7	Navigation waterways	.35	Accessory equipment. Quay railways. Cranes. Floating pumps. Floating fire engines
626.1	Shipping canals. Canalized rivers	.36	Arrangements for construction and repair of ships in so far as they affect port installations. <i>See also</i> 627.32; 629.128
.12	Plan		Arrangements for temporary closing of port. Floating booms
.13	Cross section	.37	
.14	Maintenance		
.15	Planting of banks and dykes	627.4	Improvement of rivers for navigation. Protective work for banks
.17	Bank protection and reinforcement		Plantation. Reinforcement with stone, pebbles, fascines
.18	Filling in canals	.41	Improvement of watercourses
.2	Feeding. Water supply for canals	.42	River improvement by means of damming
.3	Form and cross section	.43	Sluices. Narrows
.4	Locks. <i>See also</i> 627.45	.44	
.5	Lifting devices for ships		
.7	Traction by river and canal. Oars. Towing		

17.45	Improvement by means of locks. <i>See also</i> 626.4	628.2	<b>Sewers</b>
.47	Diversion of watercourses	.21	Sewer systems
17.5	<b>Other works for the protection and improvement of watercourses. Dikes. Polders. Draining. Land reclamation</b>	.22	Calculation for network. Shape and size of sewers
.51	Protection against flooding. Bursting of dikes	.23	Ventilation of sewers
.52	Protection against wind and waves. Holding back the sea. Stabilization of sand hills	.24	Construction of sewers
.53	Draining. Polders	.25	Accessory works. Catch basins. Sediment collection. Manholes. Overflows
.532	Draining	.26	Crossing of water courses. Siphons
.533	Warping. Polders	.27	Obstruction and bursting of sewers
.536	Depoldering	.28	Cleaning of sewers
27.6	<b>Outworks of tidal ports and harbours in deep water</b>	.29	Discharge of sewer water. Pumping stations
27.7	<b>Maintenance of watercourses and ports. Dredging</b>	628.3	<b>Sewage water. Purification. Lixiviation</b>
.73	Measures against ice	.31	Composition and volume
.74	Dredging	.32	Deodorization and disinfection of liquids and solids
.75	Port maintenance	.33	Purification by physical and mechanical processes
.76	Refloating of wrecks and ships. <i>See also</i> 629.129	.34	Purification by chemical or mechanical chemical processes
.78	Floating equipment for port works	.35	Purification by biological or bacteriological processes. Septic tanks
527.8	<b>Dams. Great reservoirs and barrage dams. Water engineering works for power stations</b>	.36	Purification by soil filtration. Irrigation
.81	Damming up of valleys. Large reservoirs. Classification according to object	.37	Utilization in agriculture
.82	Barrage dams	.38	Sewage manures
.83	Draw off from barrage dams and barrage basins	.39	Discharge of sewage water into natural waters
.84/.88	<b>Structures for hydraulic power installations</b>	628.4	<b>Town hygiene. Town sanitation. Public sanitary arrangements</b>
.84	Canals and conduits	.41	Privies. Trench latrines
.85	Water engineering structures for power plant	.42	Bucket closets
.86	Discharge of used water	.43	Earth closet systems
.88	Various devices for the prevention of obstructions by ice, floating objects, silt, etc.	.44	Solid refuse. Cinders. Household refuse. Refuse carts. Dustbins. Litter bins, etc.
.89	Other questions. Bursting of reservoirs. Repair	.45	Public lavatories. Urinals. <i>See also</i> 628.6
627.9	<b>Coastal approach works. Lighting. Pilotage. Rescue. Signals. <i>See also</i> 654</b>	.49	Processing of refuse. Sorting. Incineration
.91	Buoys. Beacons	628.5	<b>Industrial sanitation. <i>See also</i> 613.6</b>
.92	Illumination. Lighthouses. Light beacons and buoys. Light ships	.51	<b>Generalities</b>
.93	Signalling. Semaphores	.511	Dust. Protection against dust
.94	Pilotage and towing services	.512	Protection against noxious gases and fumes
.95	Marine rescue and salvage. <i>See also</i> 614.81	.513	Protection against bacteria
628	<b>SANITARY TECHNOLOGY AND ENGINEERING. SEWERAGE. HEATING. ILLUMINATION. <i>See also</i> 613/614</b>	.514	Protection against steam
628.1	<b>Water supply for towns and villages</b>	.515	Protection against noxious liquids, against contamination of water
.11	Source of supply. Collection	.516	Protection against contamination of soil
.12	Pumping stations	.517	Protection against noise and vibrations
.13	Reservoirs. Water towers	.2	Protection against noise
.14	Water conveyance. Conduits. Aqueducts	.518	Protection against optical, electrical and other nuisances
.15	Distribution systems. Network	.52	Special measures against noxious exhalations, smells
.16	Water purification. <i>See also</i> 663.6	.53	Smoke nuisance and abatement
.17	Use of water in relation to purpose	.54	Treatment of liquid and solid factory refuse
.18	Rural water supply	628.6	<b>Domestic sanitary installations. Water closets. Sinks. Baths. <i>See also</i> 628.4; 645.68</b>
		628.8	<b>Heating. Ventilation. Air conditioning. <i>See also</i> 644; 697</b>
		.81	Heating
		.82	Cooling
		.83	Ventilation
		.84	Air conditioning. Regulation of humidity
		628.9	<b>ILLUMINATION. <i>See also</i> 644.3; 683.8</b>
		.92	Natural lighting
		.93	Artificial illumination in general
		.96	Methods of illumination. Direct and indirect. Semi-direct. Projection. Flood-lighting



- 628.97 Illumination for different purposes  
.971 External illumination. Street lighting  
.972 Interior illumination  
.973 Aesthetic illumination. Theatre, shop and museum illumination  
.974 Illumination for advertising. Sky signs  
.975 Illumination for signalling  
.976 Illumination for work benches and desks  
.978 Illumination for special purposes. Safety illumination. Reserve illumination  
.7 Air raid precautions illumination. Dim-out. *See also* 355.58
- 629.1 **LOCOMOTION. TRANSPORT ENGINEERING.** *See also* 621.86/.87; 625.2
- 629.1-2 *Special Auxiliary Numbers. Subdivide like* 621-2
- 629.1-4 **Vehicles and vessels for special purposes.** *Special Auxiliary Numbers*  
-42 Tractors  
-43 Trains of towed vehicles and vessels  
-44 Vehicles and vessels for goods  
-45 Vehicles and vessels for a number of passengers. Omnibuses  
-46 Private passenger vehicles  
-465 For invalids  
-468 For training  
-47 Vehicles and vessels for special purposes  
-476 Police and pilotage  
-477 Fire fighting  
-48 Light vehicles and vessels  
-482 Racing vehicles and vessels
- 629.1-5/-8 *Special Auxiliary Numbers. Subdivide like* 621-5/-8
- 629.1.0 **Parts and equipment.** *Special Auxiliary Numbers*  
.01 Parts of vehicles and vessels  
.013 Coupling, drawgear, etc.  
.015 Supporting and landing devices  
.018 Observation and signalling devices  
.02 Propulsion acting through the wheels  
.026 Rear axle drive  
.027 Front axle drive  
.03 Special means of propulsion. Screws, propellers  
.035 Reaction propulsion. Jet propulsion  
.04 Furnishing, interior fittings  
.05 Instruments and accessories. Logs. Altimeters. Velocity indicators. Draught indicators. Sextants, etc.  
.06 Other equipment and outfit. Lines and pipes. Lighting, heating, ventilation. Hydraulic, pneumatic and electrical equipment, etc.  
.07 Measurement. Speed. Manœuvrability. Other characteristics
- 629.11 **LAND VEHICLES. TRANSPORT ENGINEERING**  
*For railway and tramway transport see* 625.  
*See also* 623.43
- 629.11.0 *Special Auxiliary Numbers*  
.011 Chassis. Bodies. Superstructure  
.012 Axles. Wheels. Tyres. Springs  
.013 Traction couplings  
.014 Steering gear. Seats  
.015 Supporting devices. Stands  
.018 Observation and signalling devices
- 629.111/.118 **Kinds of vehicles**  
.111 Primitive and small means of transport. Baskets. Trucks  
.3 Handcarts. Wheelbarrows  
.4 Perambulators  
.7 Sledges  
.112 Vehicles drawn by animals  
.113 Motor vehicles. Generalities. Classification according to power used  
.3 With gas motor  
.114 Classification according to application. *Subdivide like* 621.9-4  
.115 Classification according to number of wheels  
.117 Light vehicles with more than two wheels  
.118 Light vehicles with not more than two wheels  
.2 With one wheel. Monocycles  
.3 Bicycles  
.4 Tandem and other bicycles for more than one person  
.5 Motor bicycles in general  
.6 Motor bicycles for more than one person  
.7 Side-cars. Trailers
- 629.119 **Garage equipment**  
.5 Refilling equipment
- 629.12 **SHIPS AND SHIPBUILDING**
- 629.12.0 *Special Auxiliary Numbers*  
.011 Hull. Structural parts. Space distribution  
.013 Hawsters. Towing cables, etc.  
.014 Manœuvring devices. Sails  
.015 Anchors  
.018 Observation and signalling devices
- 629.121/.127 **Kinds of vessel**  
.121 Primitive boats  
.122 Vessels for inland navigation  
.123 Salt water craft  
.3 Ocean ships. Passenger ships and mail vessels  
.4 Cargo vessels  
.5 Special cargo vessels  
.56 Tankers  
.124 Tugs and other special types of vessel  
.2 Tugboats  
629.124.6/.9 *Subdivide like* 629.1-46/.49; *e.g.* 629.124.77 *Ships fitted with fire-fighting gear*  
.72 Fishing vessels  
.722 Whalers  
.125 Small craft  
.1 Sailing boats. Rowing boats  
.5 Lifeboats  
.8 Speed boats. Boats gliding on the surface of the water  
.127 Submarines
- 629.128/.129 **Installations and apparatus for the construction and repair of ships**  
.128 Docks  
.129 Raising sunken ships. Refloating stranded ships
- 629.13 **AERONAUTICS. AIRCRAFT ENGINEERING.**  
*See also* 623.74
- 629.13.0 *Special Auxiliary Numbers*  
.011 Parts of lighter-than-air craft. Gondolas  
.012 Parts of heavier-than-air craft. Fuselage  
.013 Coupling devices for towing aircraft

29.13.014	Components for flight and control wings. Lifting screws. Controls	629.135.2	Aeroplanes
.015	Alighting gear, land and water. Under-carriage	.4	Helicopters. Rotaplanes
.016/.099	<i>Subdivide like 629.1.016/099, e.g.</i>	.42	Craft with propulsive and lifting screws. Gyroaircraft. Autogyros
.018	Observation, signalling, intercommunication devices	.45	Craft without means for horizontal propulsion. Helicopters properly so called
.035.5	Jet propulsion	.5	Marine and water aircraft. Flying boats
.077.2	Apparatus for flight at high altitudes	.6	Flying machines with moving wings
		.62	Aircraft imitating the flight of birds
29.131	<b>Early attempts at flight.</b> First aerostats. Fire balloons	.136	Heavier-than-air craft without wings
29.132/.134	<b>Lighter-than-air craft.</b> Aerostats	.1	Parachutes
.132	Lighter-than-air craft classified according to type and construction	.2	Capapulted and other projected apparatus
.1	Without means of propulsion. Balloons	.3	Rocket aircraft without wings
.2	Dirigibles. Airships	.137	Amphibious aircraft
.134	Lighter-than-air craft classified according to purpose. <i>Subdivide like 629.1-4</i>	.1	Usable as land vehicles
		.3	Usable on land and water
29.135/.138	<b>Heavier-than-air craft.</b> Aerodynes	.138	Heavier-than-air craft classified according to purpose. Guided aircraft. <i>Subdivide like 629.1-4; e.g. 629.138.68 Training aircraft</i>
.135	Heavier-than-air craft in general	629.139	<b>Hangars. Runways. Starting up, take-off and landing devices. Ground equipment</b>
.12	Kites	629.19	<b>Astronautics</b>
.15	Gliders. Sail planes		

## 63 Agriculture. Forestry. Stockbreeding. Animal Produce. Hunting. Fisheries

63-1/-8	<i>Special Auxiliary Numbers</i>	631.353	Various haymaking machines. Hay loaders
-1/-2	<i>Subdivide like 631/632</i>	.354	Harvesting machines for corn. Binders
-5/-8	<i>Subdivide like 621-5/-8</i>	.358.4	Potato and beet digging machines
631/635	<b>AGRICULTURE, HORTICULTURE AND FORESTRY</b>	.36	Machinery and tools for scouring, conveyance and dressing of products
631	<b>AGRICULTURE IN GENERAL. AGRONOMY</b>	.361	Threshing machines. Flails. Pip removing machines
631.1	<b>Farming. Working management. Kinds of agricultural undertaking</b>	.362	Devices for sorting, cleansing, winnowing, washing, drying, fermenting
.16	Economic administration. Harvest valuation	.364	Devices for clamping, bunching, sheaving, etc. Forage presses, etc.
631.2	<b>Farm buildings. Premises</b>	.37	Industrial power. Use and transmission of power. Transport
631.3	<b>Agricultural tools and machinery</b>	.372	Motorized transport
.31	Tools for working the soil	.373	Non-motorized vehicles and vessels
.311	Agricultural implements in general	631.4	<b>Soil science</b>
.312	Ploughs	.41	Chemical and physico-chemical properties of the land
.313	Harrows	.42	Soil analysis. Chemical soil research
.314	Rollers	.43	Physical properties of the soil
.315	Horticultural tools	.44	Classification of kinds of soil
.316	Cultivators	.45	Fertility and toxicity of the soil
.319	Other implements. Drillploughs, etc.	.46	Bacteriology of the soil. Soil bacteria
.33	Sowing and planting machines. Manure spreaders, etc.	.47	Survey of the area for cultivation. Lie. Topography
.331	Sowing tools	.48	Formation of agricultural land
.332	Planting tools for small plants	631.5	<b>Methods of cultivation</b>
.333	Manure spreaders	.51	Preliminary tilling of the soil
.334	Manure spreaders combined with sowing machines	.52	Choice and multiplication of plants. Breeding. Selection
.335	Implements for dividing plants. Layering instruments	.53	Seed. Treatment of seed. Methods of propagation. Layering. Cuttings. Transplanting
.336	Transplanters	.54	Care of plants
.6	Tree planters	.541	Improving. Grafting. Inoculation
.34	Implements for pruning and protection of plants	.542	Pruning
.35	Harvesting implements	.543	Planting
.351	Harvesting by hand. Scythes. Sickles	.544	Forcing
.352	Mowing machines		

631.548	Screening. Watering	633.49	Tubers
.55	Harvest	.491	Potato
.56	Treatment of products after harvest.	.5	Fibre plants
	Threshing. Cleansing. Storage.	.51	Cotton
	Transport	.52	Flax and other bast fibre plants. <i>Subdivide like 677.1</i>
.57	By- and co-products. Foliage. Bark.	.58	Straw. Osiers. Rushes. Canes. Bamboo, etc. <i>Subdivide like 677.5</i>
.58	Flowers, etc.	.6	Sugar- and starch-furnishing plants
	Special methods of cultivation. Dry farming. Electro-cultivation, etc.	.61	Sugar-cane
631.6	Clearing. Irrigation. Drainage	.63	Sugar-beet
.61	Clearing. Reclamation	.64	Maple
.62	Drainage	.65	Sugar-palms
.67	Irrigation	.68	Starch-furnishing plants in general
631.8	Fertilizers. Manuring	.7	Plants producing stimulants
.81	Properties and application of manure	.71	Tobacco
.82	Inorganic fertilizers in general. Provision according to the need of the soil for lime, iron, sulphate, carbonic acid, etc.	.72	Tea
		.73	Coffee
.83	Potassium fertilizers	.74	Cocoa
.84	Nitrogen fertilizers	.75	Poppy
.85	Phosphate fertilizers	.76	Cola
.86	Organic fertilizers in general. Stable manure. Liquid manure	.77	Maté
.87	Other organic fertilizers. Green manuring. Humus. Refuse, etc.	.78	Chicory
.89	Compound fertilizers. Mixed fertilizers	633.8/.9	Various crops for industrial processing
631.9	Other topics	.81	Perfume-supplying plants
.92	Influence of plantations on surroundings	.82	Aromatic spices. Vanilla. Ginger
.95	Agricultural ecology	.832	Cloves
.96	Plantation systems	.833	Cinnamon
632	PROTECTION OF PLANTS. DISEASES AND PESTS. PHYTOPATHOLOGY	.834	Nutmeg
.1	Damage due to meteorological influences. Physiological diseases	.84	Condiments
.2	Gall-creating organisms	.841/.843	Kinds of pepper
.3	Bacterial diseases. Virus diseases	.844	Mustard
.4	Fungous diseases	.85	Oil-containing plants. <i>Subdivide like 665.3</i>
.5	Noxious weeds. Parasitic plants	.86	Dye-containing plants
.6	Noxious animals other than insects	.87	Tannin-containing plants
.7	Noxious insects	.88	Medicinal plants. Medicinal spices. <i>Subdivide like 615.7</i>
.8	Other diseases and pests	.885.1	Cinchona
.9	Precaution against damage. Protection of plants	.888.31	Opium poppy
.94	Dusting, fumigation or capture of the damaging agents	.91	Rubber trees
.95	Remedies against plant diseases and pests classified according to their action	.93	Gum trees
.96	Natural enemies of noxious organisms. Biological remedies for plant diseases	.94	Resinous plants
.97	Indirect remedies. Combating carriers. Plant quarantine	.946.1	Copal trees
633	CULTIVATION OF SPECIFIC CROPS	.95	Trees cultivated for their sap
.1	Cereals	.954	Catechu
.11	Wheat	.956	Camphor
.12	Buckwheat	634	FRUIT CULTIVATION. TREE NURSERIES. TREES
.13	Oats	.1	Pome fruits
.14	Rye	.11	Apples
.15	Maize	.13	Pears
.16	Barley	.2	Stone fruits
.17	Millet	.21	Apricots
.18	Rice	.22	Plums
.19	Other kinds of grain. Job's tears, etc.	.23	Cherries
.2	Forage grasses	.25	Peaches
.3	Other green fodder. Leguminous forage crops	.3	Oranges. Lemons. Citrus fruits. Figs
.4	Roots and tubers. Their cultivation as field crops. <i>See also 633.63; 633.68; 635.1/.2</i>	.4	Various tropical fleshy fruits and rind fruits. Tamarinds. Mangoes
		.5	Nuts
		.51	Walnuts
		.53	Chestnuts
		.54	Filberts
		.55	Almonds
		.58	Ground nuts
		.6	Palm fruits and fruits of other tropical and subtropical fruit trees
		.61	Coconuts
		.7	Currants and soft fruits of small plants or shrubs

634.71	Raspberries. Blackberries	635.965.28	Bulbs
.72	Currants. Gooseberries	.281.1	Tulips
.73	Bilberries. Whortleberries	.5	Hyacinths
.75	Strawberries	.282.1	Narcissi
.77	Herbaceous fruits. Bananas. Pineapples	.284	Crocuses
.8	Grapes. Viticulture	.287.2	Ranunculi. Anemones
.83	General questions. Improvement. Culture	.5	Orchids
.84	Species of vine (Botanical subdivision)	.966	Cut flowers
.85	Geographical subdivision for species and varieties	.97	Fancy plants. Various ornamental plants.
		.98	Ornamental shrubs and trees
			Hothouse flowers
634.9	<b>FORESTRY</b>	636/639	<b>STOCKBREEDING. ANIMAL PRODUCTS</b>
.92	Generalities. Forest economics. Forestry industry. Valuation. Measurements	636	<b>STOCKBREEDING. DOMESTIC ANIMALS</b>
.93	Forest engineering. Forest road building. Building of devices for timber transport	636.08	General methods. Care. <i>Special Auxiliary numbers</i>
.94	Forest botany. Dendrology. Types of forest	.081	Breeding methods. Working methods
.95	Forestry in the narrower sense. Forestry methods	.082	Cultivation of breeding stock. Breeds. Reproduction
.953	Felling. Thinning out	.083	Care of animals. Stalls
.956	Nursery. Cultivation. Planting	.084	Nutrition
.97	Forest taxonomy	.085	Food in general. Food value
.98	Processing and application of timber and forest products	.086	Natural, vegetable foodstuffs
.99	Use of other forest products. Earth. Leaves	.087	Other foodstuffs
.999	Relations between forestry and agriculture	.088	Use, training and breaking in of animals
		.089	Damage to animals. Parasites and pests
635	<b>HORTICULTURE. KITCHEN AND ORNAMENTAL GARDENS. FLOWERS</b>	636.1	Horses and other single-hoofed animals
635.1/.2	Root, tuber and bulb vegetables	.2	Cattle and other large ruminants
.1	Root vegetables. Edible roots	.29	Various large ruminants. Buffalo. Yak. Deer. Camel. Llama
.11	Beet	.3	Small ruminants
.12	Swede. Turnips. Celeriac	.32/.38	Sheep
.13	Carrots	.39	Goats
.15	Radish	.4	Pigs
.16	Various roots. Salsify	.5	Poultry. Fowls. Chickens. Hens
.2	Tubers and bulbs	.52/.58	Hens
.21	Potatoes	.59	Turkeys. Guinea fowls. Pheasants. Peacocks. Pigeons. Ducks. Geese
.25	Onions	.6	Other birds
.26	Other alliaceous crops. Garlic	.61	Birds kept for their plumage. Ostriches
635.3/.5	Green vegetables	.68	Ornamental birds. Cage birds
.31	Asparagus	.7	Dogs
.34	Cabbage	.74	Watch dogs. Sheep dogs. Police dogs
.35	Cauliflower	.75	Hounds
.36	Brussels sprouts	.76	Fancy dogs
.41	Spinach	.8	Cats
.48	Rhubarb	.9	Other domestic animals
.5	Salad species	.92	Rabbits
.52	Lettuce	.93	Animals bred for fur
.54	Chicory	.97	Various useful animals
.55	Endive	.972	Tortoises
635.6/.7	Other garden produce	.976	Elephants
.6	Plants with edible fruits and seeds	.98	Circus animals and animals for zoological gardens
.61	Melon	637	<b>Produce from domestic animals</b>
.62	Pumpkins	637.0.	Dairying. Milk products in general
.63	Cucumbers	637.1	Milk
.64	Tomatoes	.11	Exploitation
.65	Pulses. Beans and peas	.12	Production. Composition. Control
.7	Aromatic greenstuff. Mint. Parsley	.13	Processing. Dairy factories
635.8	Mushrooms. Truffles	.131	Dairy farms. Milking stalls
635.9	<b>Flower culture. Ornamental horticulture</b>	.132	Installations
.94	Division according to method of reproduction	.133	Preservation. Pasteurization. Sterilization
.942	Seed culture	.135	Transport. Bottles. Cans. Vehicles
.944	Bulb growing	.14	Applications. Various products
.95	Division according to climate, season, etc.	.141	Full cream milk. Fresh milk
.96	Division according to application		
.965.2	Indoor plants and ornamental flowers		

637.142	Condensed milk	638.2	Silkworm breeding
.143	Milk powder	.27	Silk
.145	Milk sugar	.3	Cochineal breeding
.146	Fermented milk. Yoghourt	.4	Breeding of other insects. Ant breeding
.147	Skim milk	.5	Breeding of Arachnoidea (spiders)
.148	Cream	.7	Breeding of reptiles
.16	Adulterations. Taint. Deficiencies	.8	Breeding of ornamental insects and reptiles
.17	Special kinds of milk		
.174	Goat's milk	639	HUNTING, FISHERIES AND FISH
.18	Substitutes. Artificial milk		BREEDING, OYSTER BREEDING,
637.2	Butter		ORNAMENTAL ANIMALS
.22	Composition. Control	639.1	Hunting
.23	Butter preparation. Transport. Packing		
.24	By-products. Buttermilk	.1.0	<i>Special Auxiliary Numbers</i>
.26	Taint. Deficiencies. Adulteration	.03	Formation of a game reserve
.28	Butter substitutes in general. <i>See also</i>	.04	Care of the reserve
	664.3	.05	General hunting questions
637.3	Cheese	.055	Hunting season and other restrictions
.32	Composition. Control	.057	Sportsmen. Beaters
.33	Cheese preparation. Transport and	.081	Hunting and catching methods
	storage	.09	Enemies and pests of game. <i>See also</i>
.34	By-products. Whey. Milk sugar		619
.35	Kinds of cheese	.11/.16	Kinds of game
.352	Curd	.11	Mammals in general. Big game. Hares.
.353	Soft cheese		Rabbits, etc.
.354	Hard cheese	.12	Wild fowl
.36	Deficiencies. Adulteration. Taint	.13	Seal hunting
637.4	Eggs	.14	Crocodiles. Alligators
.43	Treatment of eggs	.15	Other reptiles. Tortoises
.433	Preserving	.16	Other animals
.44	Kinds of eggs. Egg products	.18	Various hunting products. Hides. Ant-
.445	Egg powder		lers. Horns
.45	Division of eggs according to kind of bird.	639.2	Fisheries
	<i>Subdivide like 636.5</i>		
637.5	Meat. Fat. <i>See also</i> 664.9	.2.0	<i>Special Auxiliary Numbers</i>
.51	Butchery. Abattoir. Meat inspection	.03	Development of the fishing ground. Fry
.52	Sausage and meat delicacies. Pork	.04	Care of the fishing ground
	butchery. <i>See also</i> 664.94	.05	General fishery questions
.523	Sausage manufacture	.055	Restrictions. Undersized fish. Fishing
.524	Kinds of sausage		season, etc.
.525	Other meat delicacies	.057	Fishermen
.526	Deficiencies. Adulterations. Taint	.081	Methods of fishing
.53	Processing of carcasses. Destruction	.1	With nets, traps, etc.
	business	.2	With weapons
.54	Poulterer's business. Fowls	.4	With hooks
.55	Game	.5	With harpoons
.56	Fishmongery	.09	Enemies and pests of fish
637.6	Wool. Hair. Feathers. Hides. Hooves.	.21/.29	Kinds of fishery
	Butchery refuse	.21	Freshwater fisheries
.61	Skins. Hides	.22	Sea fisheries
.62	Hair. Bristles. Wool	.222.2	Herring fishery
.63	Feathers. Combings. Bird and reptile	.4	Sprat
	skins	.6	Anchovy
.64	Horns. Claws. Beaks	.223	Haddock. Cod
.65	Bones. Teeth	.227	Mackerel
.66	Blood. Gut	.228	Flat fish. Plaice
.67	Tortoiseshell	.24	Hunting sea mammals. <i>See also</i> 639.13
.68	Civet. Musk, etc.	.245.1	Whaling
.69	Other animal products. Edible birds'	.25	Inshore fishery
	nests	.27/.29	Catching or collection of shell fish and
638	BREEDING OF INSECTS AND REP-		other marine creatures and marine
	TILES		products. <i>Subdivide parallel with</i>
.1	Beekeeping. Agriculture		639.4/.6. <i>Classify preferably under</i>
.11	Generalities. Apparatus. Hives	.282	639.4/.6
.12	Kinds of bees	639.3	Shrimping
.13	Honey supplying plants. Raw honey	.31	Fish breeding
.14	Apiology	.32	In fresh water
.15	Bee diseases and pests	.34	In sea and brackish water
.16	Honey	.38	Ornamental fish breeding
.17	Beeswax		Various products of fish and marine
.18	Bee resin	.382	creatures
.19	Bees as flower fertilizers	.385	Fish eggs. Caviare
			Scales

639.386	Fish skins. Bladders	639.519	Various crustaceans. Hermit crabs
.388	Ambergris	.54	Leeches
639.4	Cultivation and catching of shellfish and snails	639.6	Breeding and winning of other marine products
.41	Oysters	.61	Sponges
.42	Mussels	.62	Coral
.43	Various molluscs	.63	Other animal products
.44	Other scallops	.64	Vegetable products. Seaweeds. Algae
.45	Edible snails. Winkles	.66	Fossil products. Meerscham
639.5	Cultivation and catching of crustaceous and bloodsucking animals	639.9	<b>Breeding of ornamental animals</b>
.51	Breeding of crawlers	.92	Terraria
.512	Shrimps	.93	Aquaria
.515	Crawfish	.94	Aquaterraria
.516	Lobsters	.95	Aviaries. Pigeon lofts, etc.
.517	Freshwater crayfish	.96	Homes, pens, hutches, etc., for mammals, conies, squirrels, etc.
.518	Crabs		

## 64 Domestic Science. Housekeeping

64.0	<i>Special Auxiliary Numbers</i>	643/645	<b>THE HOME AND HOUSEHOLD EQUIPMENT</b>
.01	General questions		
.02	Types of housekeeping	643	<b>The Home</b>
.021	Private housekeeping	.1	Location. Site
.023	Service housekeeping in flats, etc.	.2	Plan
.024	Hotel, café and restaurant industry	.3	Kitchens. Kitchen equipment
.1	Hotels	.31	General questions. Location
.2	Boarding houses	.32	Ventilation
.3	Restaurants, cafés	.33	Ovens. Stoves. Cookers
.4	Tearooms. Milkbars	.34	Kitchen equipment. Machines and apparatus. Cutting, chopping and peeling devices. Tin openers
.5	Central kitchens. Delivery of meals	.35	Kitchen utensils
.6	Clubs, etc.	.352	Pots. Pans. Kettles
.027	Cottage housekeeping	.353/.354	Various accessories for preparation of foods. Boards. Tongs. Beaters. Sieves
.028	Temporary housekeeping. Camps. Traveling	.36	Pastry room
.029	Other housekeeping	.37	Stores. Larders. Cold stores
.04	Kinds of duties. Porters' service	.38	Kitchen maintenance. <i>See also</i> 648.54
.08	Removals	.39	Kitchen living rooms. Kitchen cupboards. Kitchenettes. Sculleries
.09	Menus. Price lists	.4	Dining room and annexes
641/642	<b>CATERING. MEALS</b>	.5	Bedrooms. Bathrooms. Living rooms
641	<b>Food. Cookery</b>	.51	Bedrooms. Dormitories. Cubicles
.1	Qualitative properties of foodstuffs. Composition. Food value, etc.	.52	Bathrooms. Cloak rooms. Toilets
.3	Animal and vegetable foods	.53	Living rooms. Reception rooms. Boudoirs. Smoking rooms
.4	Preservation. Keeping. <i>See also</i> 664.8/.9	.54	Nurseries. Guest rooms. Servants' rooms
.5	Cookery	.55	Studies. Workrooms. Studios. Rooms for games, music, etc.
.5(083.1)	Recipes	.56	Various spaces. Halls. Staircases
.56	Special cookery. Cookery for children and invalids. Vegetarian recipes. Religious food observances	.57	Annexes. Sleeping balconies. Terraces. Verandahs
.6	Preparation of specific foodstuffs	.58	Washhouses and home laundries
.7	Methods of preparation. Roasting. Stewing. Boiling, etc.	.6	Labour saving devices. Internal communication
.8	Made dishes. Entrées, sweets and other courses. Ices. Drinks	.62	Signalling devices. Bells. Speaking tubes
642	<b>Meals. Table service</b>	.64	Conveyance devices. Lifts. Kitchen hatches. Rubbish chutes, etc.
.1	Principal meals. Home and family meals	.66	Remote-control devices for opening doors, etc.
.2	Light meals. Afternoon tea	.7	Repair and upkeep of rooms
.3	Outdoor meals. Picnics	.8	Cellars
.4	Banquets and official dinners	.9	Attics
.5	Tables for a large number of persons. Table d'hôte. Cold buffet	644	<b>Heating. Illumination. Ventilation. Water supply</b>
.6	Table service. Waiting. Carving	.1	Heating. <i>See also</i> 662.91; 697
.7	Table linen. China. Glass. Plate		
.8	Table decoration		

644.12	Appliances for handling fuel. Lighters.	646.6	Cleaning of clothing. Dry cleaning. Upkeep and maintenance of clothing
.19	Coal scuttles. Tongs. Fire irons	.7	Toilet. Cosmetics. Beauty culture
.3	Small heating contrivances. Bedwarmers.	.8	Devices for hanging up clothes. Trouser presses. Boot trees
.5	Footwarmers, etc.		
.6	Illumination. <i>See also</i> 628.9; 621.32	647	<b>HOUSEHOLD ORGANIZATION AND MANAGEMENT</b>
.61	Ventilation. Air conditioning	.1	Household accounts and budgets
.62	Water supply	.2	Staff in general. Indoor staff. Attendance
.64	Drinking water	.3	Outdoor service
	Hot water	.4	Special services. Watchman. Caretaker
	Washwater	.6	Wages. Hours. Duties
		.7	Reception of guests. Calls
645	<b>Furniture. Furnishing. Upholstery. Fitting-up</b>	648	<b>CLEANING. LAUNDRY WORK</b>
.1	Floor coverings. Linoleum. Carpets and carpeting. Matting	<i>See also</i> 667.1	
.2	Wall coverings	.1	Washing and bleaching in general. Public laundry arrangements. Washing materials. Soap. Starch. Bleaches
.3	Window and door furnishings	.2	Laundry
.31	Curtains, etc.	.21	Soaking
.313	Roller blinds	.22	Washing by hand. Accessories in washing
.33	Curtain rails and accessories	.23	Machine laundry. Washing machines
.4	Furniture and accessories	.25	Starching
.41	Chairs	.27	Blueing
.42	Beds. Sofas. Divans. Couches	.28	Chemical cleaning
.43	Tables	.3	Wringing. Drying. Drying rooms
.44	Writing tables. Desks	.4	Ironing
.45	Chests. Chests of drawers. Wardrobes. Cupboards	.45	Mangling
.46	Furniture accessories. Casters	.5	Cleaning of house and furniture
.47	Pillows. Mattresses	.52	Of furniture, floors and walls
.48	Household linen. Blankets	.53	Window cleaning
.49	Other furniture. Mirrors. Step-ladders. Letter boxes. Picture hangers. Fire-screens. Ash trays	.54	Cleansing of dishes
.5	Room decoration. Clocks. Pictures. Vases. Ornaments, etc.	.55	Cleansing of metal articles
.6	Complete room furnishing. Suites. <i>Sub-divide by means of sign of Relation : e.g. 645.6:643.41 Dining room suites; 645.6:643.51 Bedroom suites</i>	.56	Cleansing of glass articles
.68	Sanitary arrangements	.6	Disinfecting
.681	Furniture. Dressing tables. Washstands, etc.	.7	Eradication of vermin. Traps. Poisons
.683	Bathroom installations	649	<b>CARE OF CHILDREN, INVALIDS AND GUESTS</b>
.685	Toilet equipment	<i>See also</i> 613	
.687	Accessories for toilet equipment	.1	Care of children in general
		.2	Housekeeping for the nursery
646	<b>CLOTHING. LINGERIE</b>	.3	Feeding of children
.1	Materials	.4	Physical care of children. Dressing
.2	Sewing. Knitting. Crochet. Mending. Darning	.5	Children's games. Gymnastics
.3	Clothing for men, women or children	.6	Behaviour and habits of children in the household
.4	Underclothing. Outer clothing. Footwear	.8	Care of invalids in the household. The sick room
.5	Headgear. Hats. Caps. Bonnets. Hoods	.9	Care of guests and other persons

## 65 Commercial Sciences. Organization. Traffic

65.01	<b>GENERAL THEORY OF ORGANIZATION.</b> <i>Special Auxiliary Numbers</i>	65.012.6	Co-ordination. Collaboration
		.7	Supervision. Control and verification
.011	Principles. Rationalization. Efficiency. Retrenchment. Taylor system	651	<b>OFFICE ORGANIZATION. OFFICE MANAGEMENT</b>
.012	Directorship. Theory of administration	651.1/.2	<b>Installation</b>
.1	Management. Administration in general	.1	Buildings. Premises. Office space
.2	Plans. Preparation. Forecasts	.2	Furniture. Materials. Equipment. Machines; e.g. 651.2:681.14 <i>Calculating machines</i> ; 651.2:681.177 <i>Punched card machines</i> ; 651.2:681.61 <i>Typewriters</i>
.3	Organization		
.33	Reorganization		
.4	Direction		
.5	Execution		

651.3	<b>Structure. Organization. Departments.</b> <b>Staff establishment</b>	654.1	<b>Telegraphy. Telephony. Television</b>
651.4/.7	<b>Office administration. Efficiency. Routine</b>	.14	Telegraphy by wire. Cable telegraphy
.4	Office administration	.145	Teleprinting
.41	Time division	.147	Police and fire brigade telegraph
.45	Efficiency methods	.15	Telephony by wire
.456	Messenger service	.16	Radio communication
.457	Handling of the mail	.17	Television. Telephotography. Image trans-
.46	Office equipment	.19	mission
.47	Stock-keeping	.191	Radio broadcasting
.5	Archives. Records. Registration	.195	Transmission
.51	Kinds of documents. Book form. Loose-	.196	Radio distribution by telephone
.52	leaf form	.197	Wireless broadcasting
.53	Production of documents (by hand, by	654.9	Television transmission
.538	machine, by own press)	.91	<b>Signalling. Alarms</b>
.54	Arrangement. Registration. Classifica-	.92	Visual signalling
.545	tion. <i>For theory of classification see</i> 025.4	.93	Acoustic signalling. Sirens, etc. Alarm
.55	Sorting	.94	devices. Bells (electric and mechanical).
.56	Filing methods	655	Alarm clocks. Underwater signals. Echo
.57	Vertical	655.1/.3	sounding
.6	Various accessories for files (labels, riders)	.1	Telettransmission of orders. Telecontrol
.7	Registration of data of permanent value	.2	Telettransmission of readings; e.g. tele-
.71	Registration of papers of temporary value.	.22	thermometers
.72	Reminders	.25	<b>PRINTING. PUBLISHING. BOOK</b>
.74	Special accessories for arrangement of	.28	<b>TRADE.</b> Communication by means of the
.75	documents. Portfolios. Dossiers. Letter	.3	printed word. <i>See also</i> 681.62; 686
.76	files	.32	<b>Typography</b>
.77	Correspondence. Reports, etc. Blanks	.34	History of typography
.78	therefor	.35	Typesetting. Printing forms
	Letter paper. Bills. Envelopes, etc.		Duplicate plate making. Stereotyping.
	Other forms		Electrotyping
	Letter style. Clear language		Type setting by hand
	Division and composition of business		Mechanical typesetting
	letters. Letter outlines. Internal corre-		Printing. Presswork
	spondence		Relief printing. Letterpress
	Special announcements. Invitations		Flat printing. Lithography
	Minutes		Intaglio printing. Photogravure
	Various reports and notices		
652	<b>COMMERCIAL SCRIPT. COPYING AND</b>	655.4/.5	<b>Publishing and bookselling trade</b>
.1	<b>TRANSLATION WORK.</b> <i>See also</i> 003	.4	Publishing and book trade in general
.3	Business handwriting. Commercial corre-	.41	Publishing. Kinds of publishing business
.5	spondence. <i>See also</i> 651.7	.42	Bookselling. Types of booksellers
.6	Typewriting. Duplicating. Typing work	.5	Various questions relating to publishing and
.7	Writing and copying bureaux		book trade
.8	Translation work. Translation bureaux	.51	Manuscripts
	Codes and cyphers	.52	Relation between author and publisher
653	<b>ABBREVIATION. STENOGRAPHY.</b>	.53	Details concerning books and newspapers.
.1	<b>SHORTHAND</b>	.54	External form
.2	Theory and technique of abbreviated writing	.55	Pricing. Costing
.3	Abbreviation of ordinary handwriting	.56	Press notices. Reviews. <i>See also</i> 659.1
.4/.7	Mechanical stenography. Shorthand typing.	.57	Circulation and sales organization. De-
.72	Speed typing. <i>See also</i> 681.613.3	.58	livery
.75	Various systems of stenography	.59	Subscription book publishing. Publication
	Pitman's shorthand		in parts
	Gregg's shorthand		Publishing by special publishers' and book-
654	<b>ORGANIZATION OF TELECOMMUNI-</b>		sellers' organizations. (Book guilds,
654.0	<b>CATIONS.</b> Organization of telegraphy,		etc.)
.01	telephony and signalling. <i>See also</i> 621.39		Government, and other official, publishing
.02	<b>Generalities. Special Auxiliary Numbers</b>	656	<b>TRANSPORT ORGANIZATION</b>
.03	General organization		<i>For economic aspects see</i> 38. <i>For Engineer-</i>
.04	Service regulation. Kinds of services		<i>ing see</i> 629.1
.05	Tariffs. Payment. <i>Subdivide like</i> 658.8.03	656.0	<b>Generalities. Special Auxiliary Numbers</b>
.06	Interruptions. Delay. Complaints	.01	General organization. Stations. Stopping
.07	Calls. Signals	.02	places. Parking places
.091	Auxiliary services	.03	Service regulation. Stages
	Organization. Administration	.032	Tariffs
	Concessions. Licences. Various docu-	.033	Passenger fares
	ments		Goods rates



656.04	Interruptions. Delays. Complaints	656.52	Transport and traffic inside large buildings
.05	Traffic regulation	.56	Pipelines
.052	Driving of vehicles and navigation of vessels	656.6	<b>Transport by water. Navigation</b>
.053	Traffic restrictions	.61	Sea navigation
.054	Traffic signs in general	.62	Inland navigation
.055/.057	Fixed traffic signs. Signalling devices	.629	Local traffic by water. Water taxis
.06	Incidental services. Service stations	.65	Lake navigation
.07	Administration. Staff service	.66	Traffic with ferry boats and ferries
.071	General staff service. Captain. Driver. Auxiliary staff	656.7	<b>Air transport</b>
.072	Administration of passenger traffic	.71	Airports. <i>See also</i> 629.139; 347.81
.073	Administration of goods transport	.8	<b>Mail. <i>See also</i> 383; 654</b>
.074	Animal transport	.81	Generalities. Post offices
.076	Hire, laying up, chartering, etc., of vehicles and vessels	.82	General formalities. Registering. Certificates. Authorizations. Postmark
.078	Improvement and stimulation of traffic	.83	Letter post. Addressing. Stamping. Kinds of letters. Tariffs
.1	Co-ordination of traffic	.835	Postage. Philately
.8	Traffic competition	.84	Clearing of letter-boxes. Reception at Post Office. Sorting
.08	Accidents. Assistance	.85	Dispatch
.09	Various questions. Passports. Ships' papers. Certificates. Licences and other documents	.86	Transport methods for letters
656.1/.5	<b>Land transport</b>	.863	Tube transport. Pneumatic post
656.1	<b>Road transport</b>	.87	Carrying letters. Delivery
.11	Road transport and use of road in general	.88	Kinds of postal consignment. Various services
.117	Use of road for purposes other than transport	.881	Ordinary post
.12	Vehicles drawn by animals	.882	Parcel post
.13	Automobiles	.883	Payments and collection. Money orders
.131.2	Taxicabs	.884	Postal cheque and clearing service
.132	Motor buses	.885	Post Office savings bank
.135	Motor vans	.886	Newspaper service
.138	Private cars	656.9	<b>Other forms of traffic</b>
.14	Pedestrians. Carrier transport by human beings or animals	.96	Transport undertakings
.18	Cycles and motor cycles	.97	Indoor traffic
.183	Bicycles	657	<b>ACCOUNTANCY. BOOKKEEPING</b>
.185	Motor cycles	657-1/-6	<i>Special Auxiliary Numbers. Subdivide like 657.1/.6</i>
.19	Other transport. Sledges	657.0	<b>General questions. <i>Special Auxiliary Numbers</i></b>
656.2/.4	<b>Railway and tramway transport</b>	.01	Theory of bookkeeping
.2	Railway transport	.05	Bookkeeping with special objects. Confidential accountancy records. Bookkeeping required for taxation
.21	General exploitation. Buildings. Stations	657.1	<b>Bookkeeping systems. Single entry bookkeeping. Double entry bookkeeping</b>
.211	Passenger stations	657.2	<b>Conduct of calculation in general</b>
.212	Goods stations	.21	Definition. Debit. Credit
.213	Special stations for livestock, coal, etc. Harbour stations. Private stations	.23	Errors
.214	Joint stations	.26	Bookkeeping technique
.216	Level crossings. Halts	.261	Mechanization
.22	Trains. Train services	.262	Loose leaf books. Cards
.221	Loading of the train	.263	Tabular bookkeeping
.222	Train service. Service regulation	.27	Organization of bookkeeping
.223	Distribution of the load between carriages and wagons. Use, return and exchange of coaches	.272	Centralization
.224	Passenger and mail transport	.273	Decentralization
.225	Goods transport	.276	Uniform bookkeeping
.226	Parcel post. Luggage. Lost property	.28	Methods of payment
.228	Publicity Special facilities	.282	Pay office management
.23	Tariffs	.286	Remittances
.25	Safety measures. Signals. Block system	657.3	<b>Records required for bookkeeping and budgeting. Account books. Inventories and balance sheets</b>
.26	Auxiliary services. Delivery services. Station buffets, etc.	.31	Budgets
.27	Working of sections with sparse traffic. Simplification of service in that connection	.32	Cash book
.3	Transport on special railway lines		
.33/.35	<i>Subdivide like 625.3/.5</i>		
.4	Light railway transport. Tramway transport		
.5	Other land transport		

657.33	Day book. Journal	658.1	<b>General questions</b>
.34	Ledger	.11	Foundation of enterprises. Headquarters.
.35	Ancillary and subsidiary books		Form of management
.36	Trial balance	.14	Financing. Capitalization
.37	Inventories and balance sheets	.15	Financial administration. Control. Loss.
.371	Inventories		Profit. Dividend
.372	Balance sheets in general	.16	Rationalization. Reorganization. Mergers
.373	Depreciation	.17	Expenditure. Outgoings
.375	Kinds of balance sheets		
.377	Realization. Liquidation	658.2/.5	<b>Industrial organization</b>
657.4	<b>Accounts</b>	658.2	Establishments. Workshops. Factories. <i>See</i>
.01	Sequence of accountancy operations: planning and standard methods of operation. <i>Special Auxiliary Numbers</i>	.21	<i>also</i> 621.7; 72
.41	Capital accounts. Auxiliary accounts of capital account	.22	Situation. Site
.42	Accounts of assets, realizable and non-realizable assets, cash and bank	.23	Materials
.43	Personal accounts	.24	Plan and division of site. Arrangement of buildings
.431.8	Current account	.25	Illumination
.432	Debtors	.26	Heating. Ventilation. Acoustic arrangements
.433	Creditors	.27	Motive power
.44	Calculation of results. Profit and loss accounts. Accounts auxiliary thereto. Development accounts. Turnover calculations	.28	Equipment for production
.45	Other accounts	.281	Equipment for service. Means of conveyance within the business
.47	Calculation of prime cost. Prime cost book-keeping	.29	Technique of conveyor line. Technique of conveyor belt. Production line
.471	Kinds of expenses in general	658.3	Other questions
.1	Direct expenses	.0	Staff. The human labour factor. <i>Subdivide like</i> 331; <i>e.g.</i> 658.381 <i>Working hours</i>
.2	Indirect expenses	.04	<i>Special Auxiliary Numbers</i>
.3	Wages expenses	.041	External influences on work. <i>Subdivide like</i> 331.04
.472	Production costs	.042	Technical factors. Character of the work. <i>See also</i> 658.54
.1	Direct	.043	Administrative factors. Factors brought about by the organization
.2	Indirect	.044	Physical and chemical factors
.473	Selling expenses	.048	Duration of work
.478.2	Preliminary, intermediate and later calculations and adjustments		Various factors not directly arising from the business. Social factors. Private circumstances
.3	Apportionments. Adjustments <i>re</i> additional items	.05	Internal influences on work. Factors which depend on workers themselves. <i>Subdivide like</i> 331.05
.5	Unit method	.051	General factors. Race. Age. Sex
.6	Standard costs	.053	Physique factors. Here classify also factors which concern mental as well as bodily condition
.8	Costs comparison	.054	Mental factors
657.5	<b>Bookkeeping classified according to object.</b> Private, financial, commercial, industrial, etc.	.055	Fatigue research
.51	For private persons	658.5	Internal organization. Production control.
.52	For undertakings		Shop management
.53	For institutions, societies	.51	Preparing the work plan
.56	For public authorities	.511	Analysis of work to be done
.58	For specific departments of businesses. <i>Subdivide like</i> 657.4; <i>e.g.</i> 657.587.13	.512	Process lay-out. Routing
	<i>Wages administration</i>	.513	Scheduling. Manufacturing order control. Programming
.59	Miscellaneous accounting methods	.514	Machine loading and labour utilization
.594	For executorship, trustees, etc.	.515	Assembly. Progressing
.595	Insolvency bookkeeping	.516	Standardization within the business. <i>See also</i> 389.6
657.6	<b>Control and review of results</b>	.53	Calculation of performance. Production charts
.62	Balance sheet analysis	.531	Time records. Time measuring
.63	External and internal control. Auditors' control	.532	Production records
.635	Auditors' reports	.54	Time and motion studies. Rate fixing
657.9	<b>Other questions. Valuation</b>	.542	Operation studies
		.542.1	Time studies
		.3	Motion studies
658	<b>ORGANIZATION OF WORK. INDUSTRY. BUSINESS ORGANIZATION</b>	.543	Variations from standard time
658.01	<b>Theory. <i>Special Auxiliary Numbers</i></b>	.56	Internal shop organization
.013	Industrial psychology in general	.561	General methods
		.562	Inspection. Quality control
		.563	Tool store. Tool issue

658.565	Distribution of work. Instructions	659	<b>PROPAGANDA. ADVERTISING. INFORMATION. ADVICE</b>
.567	Losses. Waste products		
.57	Organization of experiments and research	659.1	<b>Publicity. Advertising. Propaganda</b>
.58	Shop maintenance		
658.6/.8	<b>Commercial organization</b>	659.1.0	Generalities. <i>Special Auxiliary Numbers</i>
658.6	Commercial technique in general. <i>See also</i>	.01	Theory of advertising. Psychology of advertising
.69	381/382	.02	Advertising methods. Aim and form
658.7	Barter	.03	Costs. Efficiency. Tariffs
.71	Buying. Receiving. Storing. Despatch	.04	Cultural value of advertising. Humour.
.72	Organization of purchase		Faults. Badly conducted advertising.
.73	Purchase methods		Undesirable advertising. Damage
.735	Prices. <i>Subdivide like</i> 658.8.03	.07	arising from advertising
.74	Tariffs		Advertising in relation to persons.
.75	Orders	659.11	Propagandists. The public
.77	"Follow up" of purchase		General organization of advertising and
.78	Receipt of goods	.112	propaganda
.788	Stock control. Inventories	.113	Advertising enterprises
658.8	Packing. Despatch		Preparation of advertising. Advertising
.0	Sale	.2	campaigns
.013	General questions. <i>Special Auxiliary Numbers</i>	.3	Market research
.03	Sales psychology	.5	Plan
.031	Selling prices. Tariffs	.6	Result forecasting
.032	Calculation	.7	Execution
.033	Wholesale and retail selling prices	.115	Result
.035	Discount. Reductions	659.13/.17	Visiting. Meeting. Personal canvassing
.1	Sales tariffs in general	.13	Media for advertising and canvassing
.2	General bases. Ways of counting	.131	Optical and printed advertising
.3	Fixed tariff irrespective of consumption	.132	Advertisements
.4	Decreasing tariffs	.133	Direct mail advertising. Prospectuses.
.44	Proportional tariffs		Circulars. Letters. House organs
.5	With prepayment	.134	Advertising hoardings. Advertising by bill-
.7	Progressive tariffs		sticking. Posters. Notice boards
.036	Fixed legal tariffs	.135	Moving (or animated) advertising hoard-
.2	Tariffs on bases other than delivered	.136	ings and posters
.3	quantity		Illuminated signs
.5	Dependent on place, on distance	.137	Various kinds of printed advertising.
.6	Dependent upon time	.138	Advertisements on objects. Advertising
.7	For groups of persons		calendars, etc.
.8	For specific purposes or kinds of	.139	Advertising by films and diapositives
.9	wares	.14	Special visual contrivances. Special glance
.038	For rush delivery	.145	catchers. Air advertising
.07	For methods of delivery	.15	Various questions. Light and colour
.08	Extra costs. Extras. Index tariffs		action. Type forms
.81/.88	Free delivery	.152	Aural advertising
.81	Training of salesmen	.154	Radio advertising. Advertising by gramophone installations
.82	Sales analysis	.157	Advertising by creating popular demand and
.83	Various questions of sales organization		by display of the objects for sale
.831	General organization of sales	.16	Advertising exhibitions
.832	Sales promotion. Catalogues, etc.	.17	Decoration, packing and characterization
.833	Marketing products		of wares
.84	Direct sale	.181	Devices for creating popular demand for
.841	Consignment	.182	goods. Window-dressing devices
.845	Sale through agencies	.183	Gift systems. Advertising prizes. Discounts
.846	Sales systems	.184	as prizes
.85	By private contract. <i>Subdivide like</i> 381.1	.185	Active participation by purchasers in ad-
.86	Sale by samples	.186	vertising. Advertising competitions.
.87	Sale through travellers	.187	Clearance sales
.88	Sales technique	659.18	Types of advertising
.883	Wholesale	.181	Collective advertising
	Retail. Mail order	.182	Advertising by inventors, authors
	Collection. Recovering claims	.183	Advertising by producers
	Hire purchase	.184	Advertising by merchants
658.9		.185	Advertising by tradespeople
.91	<b>Other business transactions</b>	.186	Advertising by consumers
.92	Renting. Letting. Hiring	.187	Advertising by advertising experts
	Various commercial businesses. Ware-	659.19	Various propaganda devices
	housing business. Concession sales. Sale	.191	Badges. Flowers. Flags
	of patents. Licences		
.97	Subscription. Continuous sale		

659.2	Information. Advice. Consultation. <i>See also</i> 002; 025.5; 028	659.23	Trade information. Information concerning credit worthiness. Trade advice
.21	Technique of supplying information in general. Moral responsibility of persons supplying information	.24	Technical information
		.25	Scientific information. <i>See also</i> 37
.22	Technique of advising in general. Appraisalment	.27	Information to persons in general
		.28	Requests for information. <i>Subdivide like</i> 659.2

## 66 Chemical Industry. Chemical Technology

66-2/-9	<i>General technical auxiliary numbers for parts and nature of plant and tools. Subdivide as 621-2/-9</i>	66.069	Other processes of treating liquids
66.0	<b>CHEMICAL TECHNOLOGY. INDUSTRIAL CHEMISTRY</b>	.069.1	Washing
	<i>Special Auxiliary Numbers</i>	.82	Treatment of liquids with gases
.01	Chemical engineering. Chemico-technological questions in general	.84	Degassing of liquids
.012	Control. Consumption. Yield	.07	Treatment and manipulation of gases
.3	Fuel and energy consumption	.071	Production of gases
.5	Material products	.073	Collection. Transference. Conditioning
.7	Economic yield and other economic questions	.074	Washing. Solution. Drying. Purification
.013	Chemical industry in general	.075	Carburation
.017	Raw materials	.076	Storage of gases. Gas holders
.019	Faults and imperfections in raw materials and products	.077	Rarefaction of gases
.02	Working methods and apparatus	.078	Compression. Condensation and liquefaction of gases
.022	Treating and preparing solids, liquids and gases. <i>Subdivide by means of sign of Relation : and the subdivisions of 621.9</i>	.08	Physical and physico-chemical operations
.023	Containers. Reaction vessels	.081	Stabilization
.024	Mounting of plant	.082	High and low concentration processes
.025	Sealing devices. Stoppers	.083	High and low pressure processes
.026	Tubes, pipe lines. Lutes and cements	.084	Application of vibrations, e.g. ultra-sonic vibrations
.04	Heat treatment	.085	Photo-chemical processes
.041	Furnaces	.087	Electro-chemical processes
.042	Furnace accessories. Charging and clearing equipment	.089	Electro-capillary processes
.043	Furnace materials	.09	Chemical processes
.044	Furnace upkeep and repair	.091	Syntheses
.046	Thermal processes. Temperature regulation. Roasting, fusion, autoclaves	.092	Destructive operations. Cracking
.047	Drying	.093	Treatment or reaction with water. Hydration. Dehydration
.048	Distillation	.094	Hydrogenation. Reduction. Oxidation. Halogenation. Sulphonation. Acidification. Basification. Neutralization
.5	In vacuum	.095	Organic chemical processes. Saponification. Isomerization. Polymerization. Acylation. Condensation. Nitration. Esterification
.049	Other thermal methods of separation. Separation of solid matter by evaporation of solution. Fractionation. Extraction by partial fusion. Sublimation	.096	Treatment with inert gases. Carbon dioxide
.06	Treatment and manipulation of liquids. Solution. Purification. Filtration. Refining	.097	Catalytic processes
.061	Solution and extraction	.3	Catalysts
.062	Solvents	.5	Vehicles
.063	Mixing and agitation of fluids. Dilution. Homogenization	.098	Biological processes
.6	Dispersion. Emulsification	.099	Finishing processes
.064	Dialysis	661	<b>CHEMICAL PRODUCTS IN THE NARROWER SENSE</b>
.065	Solidification. Precipitation. Crystallization	661.1	<b>Special chemical industries</b>
.066	Clarification. Decantation. Separation of liquids	.13	Products for the electrochemical industry
.067	Filtration. Refining	.14	Photo-chemical products other than light-sensitive materials
.4	Filter presses. <i>See also</i> 621.979	.17	Manufacture of mixtures without chemical change
.5	Centrifuges	.18	Colloidal products
.7	Decolorization. Deodorization	.182	Colloidal products and adsorbents. <i>Subdivide as</i> 541.182
.068	Pressing out	.183	Adsorbents
		.2	Active carbon
		.7	Silica gel
		.184	Semi-colloidal products. Decolorizing flushes. <i>See also</i> 622.243

661.2	<b>Sulphur. Sulphur compounds</b>	661.73	Organic acids. Salts and esters
.21	Sulphur	.731	Acetic acid
.22	Carbon disulphide	.78	Organo-metallic compounds
.23	Sulphur halogen compounds	661.8	<b>Inorganic compounds in general. Salts. Mineral pigments</b>
.24	Sulphurous acid. Sulphites	.83	Compounds of alkali metals. <i>See also</i> 661.3
.247	Hyposulphites. Hydrosulphites	.84	Compounds of metals of the second group. Alkaline earth metal compounds
.249	Sulphuretted hydrogen. Sulphides	.85	Lead, copper, silver and gold compounds
.25	Sulphuric acid	.86	Compounds of aluminium and the rare earths. Alum
661.3	<b>Potassium and sodium compounds. <i>See also</i> 661.83</b>	.87	Compounds of manganese, metals of the iron group and the sixth group
.31	Potassium. Potash and other potassium compounds	.88	Compounds of metals of the fourth and fifth groups
.32	Sodium. Soda and other sodium compounds	.89	Compounds of metals of the platinum and ruthenium group
661.4	<b>Halogens</b>	661.9	<b>Other industrial gases. <i>See also</i> 661.71; 662.76</b>
.41	Chlorine	.91	Compressed and liquefied gases in general
.419	Hydrochloric acid	.92	Liquid air
.42	Salt. Rock salt. Sea salt	.93	Oxygen. Nitrogen. Rare gases
.43	Hypochlorites. Chloride of lime	.94	Ozone
.44	Chlorates	.95	Hydrogen peroxide
.45	Perchlorates and other per- salts	.96	Hydrogen
.46	Bromine and bromides	.97	Carbon dioxide
.47	Iodine and iodides	.98	Oxides of nitrogen. Laughing gas. Nitrosylchloride
.48	Fluorine and fluorides	.99	Other gases
661.5	<b>Nitrogen compounds</b>	.992	Phosgene
.51	Ammonia (non-synthetic)	.993	Carbon monoxide
.52	Ammonium salts	662	<b>PYROTECHNICS. EXPLOSIVE MATERIALS. COMBUSTIBLES</b>
.53	Synthetic ammonia	662.1	<b>Pyrotechnics. Fireworks</b>
.54	Cyanamides. Calcium cyanamide	.11	Outdoor display fireworks
.55	Nitrides	.12	Signalling devices. Flares
.56	Nitrous acid. Nitric acid	.13	Rescue apparatus
661.6	<b>Non-metals and their compounds</b>	.14	Incendiary devices
.61	Sulphates	.15	Explosives. Blasting devices
.62	Nitrates	.16	Asphyxiating gases. War gases, etc.
.63	Phosphorus and its compounds	.17	Smoke devices
.632	Natural phosphates. Superphosphates	.18	Indoor and theatre fireworks
.634	Phosphoric acid	.19	Other fireworks
.635	Various salts containing phosphorus	662.2/.4	<b>Explosive materials</b>
.64	Arsenic. Arsenic compounds	662.2	Explosive materials in general
.65	Boron compounds	.21	Action and properties
.652	Borax	.22	Explosive powders
.664	Prussic acid	.23	Explosives derived from organic substances
.665	Carbides	.231	Nitrocellulose compounds. Gun cotton
.666	Pure carbon. Soot. Graphite. Lampblack	.232	Nitroglycerin compounds. Dynamite
.668	Metal carbonyls	.233	Gum dynamites and explosive gelatines
.67	Ultramarine	.234	Other aliphatic nitro-derivatives
.68	Silicon. Waterglass	.235	Nitrated aromatic phenols and alcohols. Picric acid. Lyddite. Picrates
.69	Other non-metals and their compounds. Selenium. Tellurium	.236	Other aromatic nitro-compounds
661.7	<b>Organic materials</b>	.237	Nitrated aromatic nitro-carbons. Trinitro- toluene
.71	Simple organic compounds. Hydrocarbons	.24	Safety explosives for mines. Low temperature explosives
.717	Organic nitrogen compounds	.25	Explosives formed during use. Sprengel explosives
.718	Organic metalloid compounds. <i>Subdivide as</i> 547.24	.251	Sprinkled explosives
.719	Organic sulphur, selenium and tellurium compounds	.252	Gaseous explosives. Explosives with gas-forming elements
.72	Alcohols and their derivatives	662.3	<b>Gunpowders</b>
.721	Methyl alcohol	.31	Properties
.722	Ethyl alcohol	.32	Early types
.723	Halogen derivatives of simple hydrocarbons	.33	Black powder
.724	Diethyl ether		
.725	Various alcohols		
.726	Ethers		
.727	Aldehydes and ketones		
.728	Cellulose and its derivatives		
.8	Cellulose esters		
.729	Organic peroxides		

562.34	Nitrate powders. Chlorate powders. "White gunpowder"	562.93	Furnaces for solid fuel. Fireplaces. Grates. Stoking devices for solid fuels in powder form
.35	Smokeless powders	.94	Furnaces for liquid fuels
.39	Other gun powders	.95	Furnaces for gaseous fuels
662.4	Primary explosives. Detonators	.96	Treatment of smoke and combustion products. Soot deposit
.41	Initiators. Fulminates. Azides	.98	Special heating methods. <i>See also</i> 697
.42	Percussion caps. Ignition devices	.987	Indirect heating by means of oil, water, etc.
.43	Detonators for high explosives	.99	Heat recuperation. Exploitation of natural sources of heat
.44	Primers. Firing tubes for guns	.998	Thermal insulation
.45	Match. Slow match		
.46	Detonating fuses		
.47	Projectile fuses		
.48	Firing devices. Firing mechanisms		
662.5	<b>Fire producing material. Matches</b>	663	<b>TECHNICAL MICROBIOLOGY. BEVERAGES. TOBACCO</b>
.51	Primitive materials. Linstocks. Tinder boxes	663.1/.5	<b>Technical microbiology. Ferment industries. Yeast and spirit manufacture</b>
.52	Kindlers operating by gas or gunpowder	.1	Microbiological industry in general. Tech- nical mycology. Yeast preparation. Tech- nical bacteriology
.53	Matches	.2	Wines. Wine making
.58	Firelighters	.3	Cider and other fruit wines
.59	Various kindlers	.4	Beer. Brewing. Malting
.592	Cigarette lighters. Petrol lighters. Pocket lighters	.5	Alcohol. Distilled liquors. Spirits
.593	Electric lighters		
662.6/.9	<b>Fuel industry. Industrial heating. <i>See also</i> 536; 621.36; 644.1; 66.04; 697</b>	663.6	<b>Water. Drinking and industrial water</b>
662.6	Heat industry in general. Natural fuels	.63	Water purification
.61	Combustion	.631	Physical and mechanical purification. Boiling. Degasification. Adsorption processes. <i>See also</i> 628.16
.614	Thermal balance	.632	Chemical purification
.62	Fuels in general	.634	Distillation
.63	Wood as fuel	.64	Natural and artificial mineral waters
.641	Peat	.67	Edible ice and iced drinks
.642	Lignite		
.65	Less valuable fuels	663.8	<b>Mixed beverages. Syrups. Liqueurs made with fruit. Lemonades</b>
.66	Coal and anthracite	.81	Fruit juices. Syrups
.67	Bituminous shale	.83	Liqueurs made by infusing fruit with alcohol
.68	Crude mineral oils	.85	Synthetic fruit juices
.69	Mineral gas	.87	Alcoholic mixed beverages. Cocktails. Grogs
662.7	Thermally or chemically produced fuels	.88	Tonic waters. Health promoting beverages
.71	Charcoal	663.9	<b>Chocolate. Cocoa. Coffee. Tea. Tobacco</b>
.73	Peat distillation and gasification of less valuable fuels	.91	Chocolate. Cocoa
.74	Distillation of coal. Coke manufacture	.92	Cocoa substitutes. Cola
.742	Low temperature coking	.93	Coffee
.75	Liquid fuels	.94	Coffee substitutes
.757	Colloidal fuels	.95	Tea
.76	Manufactured gaseous fuels	.96	Tea substitutes
.761	Generator gas	.97	Tobacco
.762	Producer gas	.971	Snuff
.763	Water gas	.972	Plug tobacco
.764	Coal gas	.973	Smoking tobacco
.765	Wood, peat, oil gas, etc. Aerogen gas	.974	Cigarettes
.766	Acetylene	.975	Cigars
662.8	Artificial fuels produced by mechanical processes. Briquettes	.976	Cigars and cigarettes of special kinds
.81	Briquettes in general	.99	Narcotics. Opium. Hashish
.82	Lignite briquettes		
.83	Coal briquettes	664	<b>PREPARATION AND PRESERVATION OF SOLID FOODSTUFFS</b>
.85	Compressed charcoal	664.1/.2	<b>Carbohydrate industry</b>
.86	Compressed peat	.1	Sugar
.87	Pulverized fuels	.0	General processes. Refining
.88	Meta, etc.	.11	Cane sugar
.89	Other briquettes, etc.	.12	Beet sugar
662.9	Heating apparatus and methods	.13	Various kinds of sugar other than monoses.
.91	Domestic heating in general. Heating of vehicles. Heating in the open air.	.14	Milk sugar. Maltoses. Javanese sugar
.92	Footwarmers		Sweets. Confectionery
	Industrial heating in general. Draught. Air warming. Temperature regulation. Furnace parts		

664.15	Molasses	664.8.034	Smoking
.16	Glucose. Hexoses. Monoses	.035	Chemical preservation
.161	Dextrine	.036	Preservation by heating
.162	Glucose	.5	Preservation in tins
.2	Starch and starchy substances	.6	Preservation in glass
.22	Potato flour	.037	Preservation by refrigeration. Freezing
.23	Wheat and other grain starches	.047	Preservation by drying
.24	Rice starch	.82/.86	Vegetable preserves
.25	Maize starch	.82	Cereals
.26	Starch of various fruits, of beans, chest-nuts, nuts	.83	Potatoes. Roots and tubers
.27	Other kinds of starch	.84	Greens
.272	Tapioca	.85	Fruits
.273	Sago	.86	Preservation of various vegetable products
.274	Banana starch	.87	Concentrated foods in general
.28	By-products. Halogenated products and other derivatives	.871	Soup preparations. Blocks, etc.
.29	Pectin	.872	Yeast preparations
664.3	<b>Edible fats and oils. See also 665.2/.3</b>	.874	Malt preparations
.31	Edible animal fats	.9	Preservation of foodstuffs of animal origin
.316	Animal margarine	.91	Meat preservation in general
.32	Edible animal oils	.92	Dried, smoked, salted meat
.326	Emulsified edible oils	.93	Tinned meats. Various meat delicacies as preserves
.33	Edible vegetable fats	.94	Frozen meat
.336	Plant butter. Vegetable margarine	.95	Fish preservation
.34	Edible vegetable oils	.957	Fish meal
664.4	<b>Mineral foodstuffs</b>	.958.2	Fish salads
.41	Table salt	.97	Other animal preserves. <i>Subdivide like 637</i>
.44	Salt mixtures	665	<b>OILS. FATS. WAXES</b>
.48	Mineral nutritive preparations	665.1/.3	<b>Vegetable and animal oils, fats and waxes</b>
664.5	<b>Spices and condiments</b>	.1	Oils and fats and their derivatives in general
.51	Pepper. Black pepper	.11	Generalities
.52	Red pepper. Cayenne pepper. Pimento	.117	Oil cakes
.53	Mustard	.12	Stearin manufacture. Fatty acids
.54	Nutmeg	.13	Waxes in general
.55	Ginger	.14	Candle manufacture
.56	Cinnamon	.16	Stearin candles
.57	Vanilla	.18	Wax candles
.58	Pickles	.194	Torches
.59	Other spices	.2	Animal oils, fats and waxes
664.6	<b>Bakery and cake making</b>	.21	Animal oils
.62	Kinds of bread	.213	Fish oil
.628	Rusks	.214	Fish liver oil
.63	Unleavened bread. Biscuits. Wafers	.215.1	Whale oil
.64	Raw materials for bread making	.22	Animal fats
.644	Means of improving baking properties	.23	Animal waxes
.65	Bread making	.3	Vegetable oils, fats and waxes
.653	Kneading. Shaping. Tools therefor	.32	Non-drying oils
.654	Fermenting	.325.2	Arachis oil. Pistachio oil
.655	Baking	.33	Semi-drying oils
.67	Cake making	.334.9	Rape oil
.68	Pastry making. Fancy cakes. Pies	.335.2	Soya oil
.69	Paste products	.34	Drying oils
.693	Vermicelli	.345.4	Linseed oil
.694	Macaroni	.6	Wood oils
664.7	<b>Flour milling</b>	.35	Vegetable fats
.72	Milling processes	.353.3	Palm oil
.73	Grinding machinery. <i>See also 621.92</i>	.6	Coconut oil. Coconut fat. Copra
.74	Contrivances for sifting, screening, sorting and other auxiliary machinery	.36	Vegetable waxes
.77	Mills	.37	Vegetable phosphides. Lecithin
664.8/.9	<b>Preservation of organic substances</b>	.38	Special products
.8	Preserving in general	.382	Sulphonated oils. Turkey red
.0	Methods of preserving. <i>Special Auxiliary Numbers</i>	665.4/.5	<b>Mineral oils, fats and waxes</b>
		.4	Oils, fats and waxes of mineral origin in general
		.41	Paraffin. Oils containing paraffin. Vase line
		.43	Ozokerite
		.44	Lignite distillation

665.45	Asphalt industry. Properties. Composition. Natural asphalt. Processing of bituminous slate. Asphalt mixtures and emulsions	666.3.041	Ovens. Firing and baking
.5	Mineral oil. Processing of mineral oils.	.056.5	Metallizing
.51	Oil distillation	.5	Porcelain
.52	Crude petroleum. Petroleum emulsion	.6	Stoneware. Earthenware. Faience. Terra cotta. Pottery. Crockery
.53	Distillation and distillation products	.7	Bricks. Tiles. Refractory products
.54	Cracking and cracking products	.71	Bricks
.58	Refinery and refinery products	.73	Pipes
.59	Preparation of synthetic petroleum products	.74	Tiles
	Special products and mixed products obtained from mineral oils and mineral gases. Special petrols with special combustion limits. Specific fractions	.76	Fireproof earthenware. Refractory materials
666	<b>GLASS AND CERAMIC INDUSTRY.</b>	.78	Crucibles and muffles
	<b>ARTIFICIAL STONE</b>	666.8/.9	<b>Artificial stone. Lime. Mortar. Cement. Concrete</b>
666.1/.2	<b>Glass</b>	.8	Plaster. Artificial stone
.1	Glass and glass manufacture in general	.81	Plaster and gypsum products
.0	General processes. <i>Special Auxiliary Numbers</i>	.82	Hardening of plaster
.022.1	Preparation	.83	Surface treatment of plaster
.031	Glass furnaces. Melting	.84	Lutes and cements containing gypsum
.032	Glass blowing by mouth. Blow pipes	.85	Artificial stone blocks with a basis of magnesia
.033	Glass blowing by compressed air	.858	With asbestos. Asbestos cement
.034	Casting glass	.86	Silico-calcareous materials. Artificial sandstone
.035	Shaping of glass by pressing, rolling or stamping	.87	Artificial stone with a "Terrazzo" basis
.036	Other methods of first shaping. Centrifuging	.88	Artificial stone with a basis of lava or slag
.037	Finishing of shaped glass	.89	Other kinds of artificial stone
.038	Cooling. Heat treatment. Annealing	.892	From industrial waste products
.039	Cutting. Drilling	.894	From organic substances. Mastic from asphalt
.056.5	Metallization	.9	Lime. Mortar. Concrete. Cement
666.11/.18	Various kinds of glass and their manufacture	.91	Lime. Limekilns
.11	Glass. Glass articles in general	.92	Hydraulic lime
.12	Raw materials for glass manufacture. Mixtures	.93	Mortars
.15	Sheet glass	.94	Cement. Portland cement
.16	Plate glass. Grinding	.95	Pozzolanic materials
.17	Hollow glassware. Bottles. Tubing. Bulbs	.96	Lutes
.18	Other kinds of glass	.97	Concrete
.181	Toughened glass	.98	Reinforced cement and concrete
.184	Reinforced glass	.982	Reinforced concrete
.187	Ornamental-glass	667	<b>DYEING AND BLEACHING INDUSTRIES</b>
.189.2	Glass spinning. Glass wool	667.0/.3	<b>Treatment of fibres and textiles. Bleaching. Preparation. Finishing. Dyeing and printing</b>
.19	Fused silica. Quartz glass	.0	Bleaching, dressing, dyeing and printing
666.2	Special kinds of glass	.03	<i>Special Auxiliary Numbers</i>
.21	Crystal glass. Lead glass	.03	Appliances and methods of bleaching, calendering and dyeing
.22	Optical glass	667.1	Bleaching. Mercerizing. Finishing
.23	Strass. Artificial gems	.11	Bleaching
.24	Coloured glass	.12	Washing. Stain removing
.25	Cased or flashed glass	.13	Mercerizing
.26	Milk glass. Decorated glass. Opal glass	.14	Steaming. Damping
.27	Beads. Various small glass articles	.15	Fulling. Teasing
.28	Glass etching and engraving. Glass cutting and grinding	.16	Dressing. Sizing. Impregnating
666.29	<b>Enamel. Glazing. Engobes</b>	.17	Pleating. Ruching
.291	Raw materials for enamels and glazing. Opacifying agents	.18	Impregnated fabrics and paper. Waxed and varnished materials
.293	Enamelling of metals and in particular of iron	.183	Oilcloth
.295	Ceramic glazes	.185	Rubber cloth
.297	Engobes. Slips	.187	Linoleum
666.3/.7	<b>Ceramics</b>	667.2	<b>Dyeing</b>
.3	Ceramic products in general. Clays	.21	Raw materials. Dyestuffs. Mordants.
	<i>Special Auxiliary Numbers</i>	.22	<i>See also 668.8</i>
		.24	Pre-treatment
		.25	Dyeing methods
		.26	Dyeing vegetable fibres
		.27	Dyeing animal fibres
		.28	Dyeing mixed fibres and mineral fibres
		.29	Subsequent treatment



667.3	Textile printing	668.18	Fine soap. Toilet soap
.33	Chemical processes. Batiks. Ikat process	.188.9	Shaving soap
.34	Mechanical appliances. Printing machines	.191	Liquid soap
.35/.38	Printing on different fabrics. <i>Subdivide like 667.25/.28</i>	668.2	Glycerin and derivatives
.35	Cotton printing. Silk printing	.27	Glycerin preparation by synthesis and by fermentation
667.4/.5	Inks. Black lead. Chalk	668.3	Adhesives. Glue and gelatin. Bone processing. Albumen
.4	Writing inks	.31	Glues
.5	Printing inks and other drawing and writing media	.317	Gelatin
.03	Pigments. Thickening materials	.32	Hide glue
.52	Printing inks	.33	Bone glue
.53	Stamp pad inks. Hectograph inks	.34	Glue and grease from animal waste
.54	Typewriter inks and ribbons	.35	Fish glue
.55	Lithographic inks	.36	Liquid glue
.56	Coloured chalks. Pastels. Black lead	.37	Bone processing. Bone meal
667.6/.8	Paints. Varnishes. Lacquer. Polishing materials	.38	Animal charcoal. Bone charcoal
667.6	Paints	.39	Albumens and other adhesives
.61	Generalities. Properties. Tests. Defects	.391	Albumens in general. Albumen
.62	Dyes. Pigments. Colours	.392	Proteins
.621	Thickening materials. Dryers	.393	Vegetable adhesives. Glue from seaweeds. <i>See also 664.161; 664.2</i>
.5	Varnish. Conditioning oils	.394	Albumen derivatives
.8	Siccatives	.395	Synthetic glues
.622	Pigments. <i>See also 661.8</i>	668.4	Gums and resins
.623	Preparation, grinding, screening of pigments and colours	.41	Gums
.624	Ready mixed colours	.44	Resins
.6	Protective paints	.442.3	Balsam of Peru
.625	Enamels. Glazed colours	.443.3	Elemi
.626	Colours for artists	.6	Dammar resins
.627	Distempers. Water and glue colours	.445	Fir resins
.628	Printing colours. <i>See also 667.5</i>	.446	Copal
.64	Painting. Methods and processes	.47	Resin pitch
.643	Painting on various foundations	.472	Colophony
.65	Artistic and decorative painting	.48	Turpentine. Fir oil
.66	House painting and industrial painting	668.5	Essential oils. Perfumery. Cosmetics
.67	Staining wood. Colouring stone, metal, leather, liquids	.03	Preparation, distillation of essences
667.7/.8	Varnishes. Lacquers. Polishes	.52	Natural essential oils
.7.03	Processes. Implements	.529	Animal essential oils
.71	Raw materials for lacquer	.53	Principal constituents of essential oils
.72	Lacquers made of turpentine and less volatile solvents	.54	Synthetic essential oils
.721	Resin lacquer	.55	Compound perfumes
.728	Cellulose lacquers	.56	Fruit essences
.73	Lacquers made of volatile solvents	.58	Cosmetics
.81	Japan lacquer	.582	Toilet water. Bath salts
.812.5	Sealing wax	.583	Tooth pastes
.82	Black lead. Boot polish. Polishing wax	.584	Toilet creams. Make-up. Powder. Nail-varnish
.89	Other questions	.585	Preparations for the hair
.891	Processes for removing colour and lacquer	.587	Perfumes for burning. Incense
668	VARIOUS ORGANIC CHEMICAL INDUSTRIES	668.7	Tar distillation. Pyroligneous products
668.1	Soaps. Soap industry	.72	Wood tar
.1.0	<i>Special Auxiliary Numbers</i>	.73	Coal tar
.03	Preparation. Moulding	.735	Illuminating oil
.047	Drying	.736	Intermediate oil. Heavy oil. Creosote
.099	Finishing	.737	Anthracene oil. Anthracene pitch
.12/.19	Raw materials and kinds of soap	.738	Tar pitch
.12	Raw materials	.739	Pitch cokes
.13	Soft soap	.74	Derivatives of tar hydrocarbons. Halogenated, nitrated and hydrated products
.14	Preparation of soft soap	.75	Peat tar
.15	Hard soap	.76	Sapropel tar
.16	Marseilles soap	.77	Lignite tar
.17	Preparation of other hard soaps	668.8	Artificial organic dyestuffs
.177.1	Soap in bars	.81	Dyestuffs according to chemical constitution
.2	Soap powder	.811	Azo-, azoxy- and hydrazo-dyestuffs

668.812	Anthracene dyestuffs	669.186	Crucible steel
.813	Acridine. Di- and tri-arylmethane dyestuffs. Phthalicins. Pyrones. Oxyketone dyestuffs	.187	Production of steel in electric furnaces
.814	Azines. Oxazines. Thiazines. Safranines. Indophenols	.189	Casting, solidification and cooling
.815	Sulphur dyestuffs	669.21/.23	<b>Precious metals and their alloys</b>
.816	Indigo. Indigoid dyestuffs	.21	Gold
.819	Other dyestuffs	.22	Silver
.82/.89	Various synthetic dyestuffs. <i>Subdivide like 547.2/.9</i>	.23	Platinum and metals of the platinum group
669	<b>METALLURGY</b>	.231	Platinum
	<i>Note: Each of the numbers for the metals mentioned under 669.2/.8 can be subdivided by adding the following digits:</i>	.232	Iridium
	...1 Combined studies on extraction and processing	.233	Osmium
	...3 Separating from the ore	.234	Palladium
	...4 Purification. Refining	.235	Rhodium
	...48 Recovering from residues or scrap	.236	Ruthenium
	...5 Alloys	669.24/.29	<b>Various metals of the fourth, fifth, sixth and eighth groups of the periodic system</b>
	...6 Processing	.24	Nickel
	...7 Applications	.248	Nickel plating
	...8 Metal coating; e.g. 669.22 Silver, 669.225 Silver alloys, 669.228 Silver plating	.25	Cobalt
669-4	<b>Forms in which metal is produced. <i>Special Auxiliary Numbers. Subdivide like 621-4</i></b>	.26	Chromium
669.0	<b>General Metallurgy. <i>Special Auxiliary Numbers</i></b>	.268	Chromium plating
.01	Metallurgy in general	.27	Tungsten
.011	Extraction metallurgy	.28	Molybdenum
.9	Non-ferrous metals	.292	Vanadium
.014	Reactions	.293	Niobium
.015	Products and intermediate products	.294	Tantalum
.017	Physical metallurgy in general	.295	Titanium
.9	Non-ferrous metals	.296	Zirconium
.018	Alloys	.297	Hafnium
.9	Non-ferrous alloys in general	.298	Thorium
.04	Thermal processes. Metallurgical furnaces. <i>Subdivide like 66.04</i>	.299	Uranium
.05	Various general metallurgical processes	669.3/.6	<b>Non-precious, heavy industrial metals</b>
.054	Refining	.3	Copper
.09	Various metallurgical processes. <i>Subdivide like 66.09</i>	.35	Copper alloys
669.1	<b>Iron. Steel</b>	.5	Brass
.11	Iron and iron-carbon alloys	.6	Bronze
.12	Pure iron	.71	Aluminium bronze
.13	Cast iron	.386	Copper plating
.14	Steel. Special carbon steels	.4	Lead
.018	Steel classified according to properties	.5	Zinc
.15	Iron and steel alloys	.586	Zinc plating. Galvanizing
.16	Manufacture of pig iron and cast iron	.6	Tin
.162	Pig iron production	.686	Tin plating
.2	Blast furnaces	669.7/.8	<b>Other metals and metalloids, pure or used for alloys</b>
.163	Foundry pig iron	.7.0	Light metals in general
.168	Preparation of ferro-alloys	.017	Light metals
.17	Manufacture of pure iron. Electrolytic iron	.018	Light alloys
.18	Steel manufacture	.71	Aluminium
.181	Direct steel processes	.719	Aluminothermy
.182	Cementation and similar processes	.721	Magnesium
.183	Open hearth steel. Siemens-Martin processes	.725	Beryllium
.1	Puddling	.73	Cadmium
.2/.4	Open hearth processes, acid and basic	.74	Manganese
.5	Multiplex processes	.75	Antimony
.184	Converter steel	.76	Bismuth
.1	Acid Bessemer process	.77/.78	Alloy forming metalloids
.2	Basic Bessemer process	.774	Polonium
		.775	Sulphur
		.776	Selenium
		.777	Tellurium
		.778	Arsenic
		.779	Phosphorus
		.781	Boron
		.782	Silicon
		.783	Germanium
		.784	Carbon
		.786	Nitrogen
		.787	Oxygen
		.788	Hydrogen

669.791	Mercury
.793	Scandium
.794	Yttrium
.848	Masurium
.849	Rhenium
.85/.86	Rare earth metals. <i>Subdivide like 546.65/.66</i>
.871	Gallium
.872	Indium
.873	Thallium
.88	Alkali metals
.882	Potassium

669.883	Sodium
.884	Lithium
.885	Rubidium
.886	Caesium
.89	Alkaline-earth metals
.891	Calcium
.892	Strontium
.893	Barium
.894	Radium

669.9	Assaying
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## 67 Manufacture and Processing of Simple Materials

671	<b>ARTICLES OF PRECIOUS METAL, OF PRECIOUS STONES AND OF METALS OTHER THAN IRON AND COPPER.</b> Precious metal industry
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671.1	Jewellery. Gold and silver work
.11	Goldsmithery. Silversmithery
.12	Jewellery
.13	Useful objects of precious metal. Chain purses. Watch chains
.14	Gilded and silvered goods
.15	Precious stones
.152	Diamond industry
.16	Artificial jewels
671.2	Small articles of various alloys. Fancy articles
671.4	Money. Coins. Medals. <i>See also 737</i>

672	<b>ARTICLES OF IRON AND STEEL</b>
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.1	Articles of cast iron or cast steel. Foundry work for building. Art foundry work. <i>See also 621.74</i>
.3	Plate processing. Forged articles. Objects of soldered, riveted, embossed and galvanized iron
.4	Tinsmithery. Utensils of white tin, tinned iron and enamelled tin
.46	Cans for preserved food
.6	Chains. Anchors
.7	Cutlery. Spoons and forks
.71	Knife manufacture. Cutting instruments
.715	Razor manufacture
.73	Small apparatus for sharpening
.76	Spoon and fork manufacture
.8	Small metal articles
.81	Pins
.82	Needles
.86	Pen nibs
.87	Metal buttons
.886.2	Nails
.9	Various metal goods. Metal furniture. Umbrella frames. Metal boxes

673	<b>OBJECTS OF VARIOUS METALS OTHER THAN IRON AND PRECIOUS METALS</b>
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.1	Objects of copper and of copper alloys in general
.2	Objects of repoussé copper and of brass
.3	Artistic foundry work. Artistic bronze objects
.4	Electroplated products
.5	Bells. Bell founding
.6	Pipe fittings. Brass taps
.7	Other brass fittings. <i>Subdivide like 621.647</i>
.8	Objects of tin, lead, zinc, light metals, etc.
.83	Tubes

674	<b>WOOD INDUSTRY</b>
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674.0	<b>Processes and machinery for wood industry.</b> <i>Special Auxiliary Numbers</i>
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.02	Operations in wood working
.03	Kinds of wood
.04	Steaming. Drying. Impregnating. Pressing
.05	Machinery and appliances for wood processing
.06	Products of the wood industry
.07	Surface treatment of wood
.08	By-products. Waste

674.1/.7	<b>Various kinds of woodwork and timber products</b>
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.1	Carpentry. Building and ships' carpentry
.2	Joinery
.21	Joinery for building
.23	Carpentry for furniture making
.24	Wood veneer. Block-board. Plywood
.25	Woodwork for vehicles and vessels
.26	Trellis. Railings
.3	Cartwrighting
.4	Coopery
.5	Box making. Small wooden objects
.6	Packing case making. Wooden baskets
.7	Wood bending and turning. Pole making

674.8	<b>Wood waste. Cork. Peat</b>
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.81	Compressed wood. Artificial wood
.82	Wood wool
.83	Cork
.84	Artificial cork
.88	Peat litter. Peat slabs

675	<b>LEATHER INDUSTRY. LEATHER DRESSING</b>
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675.0	<b>Processes and machinery for the leather industry.</b> <i>Special Auxiliary Numbers</i>
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.02	Dressing of raw leather
.03	Source of the leather
.04	Auxiliary materials
.05	Leather preparation and dressing machines
.08	By-products

675.1/.7	<b>Various kinds of leather</b>
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.1	Hungarian tawing
.2	Tawing. Soft leather
.3	Morocco leather
.4	Buffing. Hard leather. Parchment
.6	Pelts and furriery
.7	Straps. Lacquered leather. Ornamental leather

- 675.8 **Processing of waste and by-products of the leather industry.** Artificial leather. Related industries. Processing of animal hair, feathers, gut, bone, horn, ivory, tortoiseshell, whalebone, fish scales, etc. *See also* 677; 679.5
- 675.9 **Leather dyeing**
- 676 **PAPER AND CARDBOARD INDUSTRY**
- 676.1/.2 **Paper manufacture**
- .1 Preparation of pulp
- .0 Generalities. *Special Auxiliary Numbers*
- .02 Processes. Crushing of fibres. Boiling, etc.
- .03 Raw materials
- .04 Auxiliary materials
- .05 Apparatus. Machinery. Hollanders
- .06 Products
- 676.11/.19 Division of paper material preparation according to raw materials
- .11 Rags
- .12 Old paper
- .13 Alfalfa and esparto grass
- .14 Straw
- .15 Wood material
- .16 Cellulose
- .17 Various grasses
- .18 Other fibres
- .19 Mixtures of fibres
- .2 Paper manufacture proper
- .2.0 Processes and appliances. *Special Auxiliary Numbers*
- .02 Processes
- .05 Appliances. Equipment. Paper machines
- 676.3/.5 **Kinds of paper**
- .3 Writing, printing, drawing paper, etc.
- .4 Paper for industrial and household purposes
- .5 Coloured papers. Wallpaper. Fancy paper
- 676.6/.7 **Cardboard**
- .6 Millboard and cardboard manufacture in widths
- .7 Shaped and pressed cardboard. Corrugated cardboard
- 676.8 **Paper wares. Cartons**
- .81 Objects cut out of thin paper. Paper band. Tickets. Checks, etc.
- .82 Cut out and folded paper
- .821 Bags
- .822 Envelopes
- .823 Portfolios
- .828 Cups
- .83 Tubes, spools, holders, etc., of paper or thin cardboard wound and glued
- .84 Cardboard boxes and other objects
- .86 Papier maché objects
- 677 **TEXTILE INDUSTRY**
- 677.0 **General questions. *Special Auxiliary Numbers***
- .01 Theory. Textile engineering
- .02 General processes
- .021 Fibre preparation
- .022 Spinning
- .024 Weaving
- .03 Raw materials
- .04 Auxiliary materials
- .05 Textile machinery
- .051 Preparation machines. Scutchers. Degrainers. Openers. Crushers. Hacklers. Carding. Combing. Stretching
- 677.052 Spinning machines. Twisting machines
- .053 Reels. Spools
- .054 Weaving machines
- .058 Parts and auxiliary machines for weaving
- .06 Textile products. Fabrics
- .08 Waste. By-products
- 677.1/.5 **Kinds of fibre and products prepared therefrom**
- .1 Vegetable fibres in general. Bast fibres
- .11 Flax. Linen
- .12 Hemp
- .13 Jute
- .14 Woody stem fibres of dicotyledons. Suni Java jute
- .15 Non-woody stem fibres of dicotyledons
- .151 China grass
- .16 Leaf fibres
- .161 Manilla
- .162 Aloe. Sisal
- .17 Various stem fibres
- .18 Fruit fibres
- .181 Coconut
- .19 Various plant fibres. Barks. Pine needles
- .194 Peat fibres
- .2 Plant hairs. Cotton. Kapok, etc.
- .21 Cotton
- .22 Various seed hairs
- .23 Fruit hairs. Kapok
- .3 Animal fibre materials. Hair. Wool, etc.
- .31 Sheeps' wool
- .32 Llama wool
- .322 Alpaca
- .33 Goats' hair
- .332 Cashmere
- .334 Mohair
- .34 Camel hair
- .35 Various kinds of hair. Bristle, etc.
- .358 Horsehair
- .36 Other animal fibres
- .365 Whalebone. Quills
- .38 Artificial wool. Mungo. Shoddy
- .4 Fibres existing as continuous threads. Silk
- .41 Natural silk in general
- .44 Schappe. Bourette
- .46 Artificial silk. Cellulose silk
- .461 Nitrocellulose silk
- .462 Copper ammoniac silk
- .463 Viscous silk
- .464 Acetate silk
- .47 Synthetic fibres not derived from cellulose
- .472.4 Casein thread, etc.
- .48 Artificial staple fibres
- .486 Cellulose wool. *Subdivide like* 677.4
- .487.24 Casein wool
- .5 Other fibres. Plaiting
- .51 Natural mineral fibres
- .52 Artificial mineral fibres
- .53 Metal tissues. Expanded metal
- .54 Plait. Straw. Cane
- .55 Elastic fibres. Rubber fabrics
- .57 Paper spinning and weaving
- 677.6/.9 **Textile products of special form**
- See also* 746
- .6 Mixed fabrics. Special fabrics
- .61 Figured fabrics. Damask. Pile
- .62 Brocade. Velvet
- .62 Fulle fabrics. Cloth. Flannel. Sw Blankets
- .63 Felt
- .64 Carpeting
- .65 Gauze. Lace. Tulle
- .66 Knitting. Crochet. Netting. Round

677.67	Tubular fabrics
.7	Lengthy textile products. Rope making. Cable manufacture. Tape and braid
.7.08	Forms of knot
.71	Rope making
.72	Metal cables. Wire ropes
.73	Compound cables. Telephone cables. Submarine cables
.74	String manufacture
.75	Shoe laces. Ribbon. Tape
.76	Passementerie
.77	Embroidery work
.9	Other textile products. Wadding. Vestas. Tow. Stuffing for upholstery
678	<b>RUBBER INDUSTRY</b>
678.0	<b>General questions. Special Auxiliary Numbers</b>
.01	Properties of rubber, rubber mixtures, etc.
.02	Processes for preparation of rubber and rubber products
.021	Coagulation
.028	Vulcanization
.04	Auxiliary materials. Filling materials. Dyes. Accelerators. Anti-oxydants
.05	Machines and apparatus
.053	For plastic form modification. Rollers. Calenders
.054	For non-plastic form modification. Devils. Cutting machines
.057	Machines and appliances for latex processing
.058	Vulcanization apparatus
.06	Various rubber mixtures and products
.061	Fluid and semi-fluid mixtures
.062	Non-vulcanized products
.063	Vulcanized products
.064	Hardened products
678.1/.4	<b>Rubber and ebonite</b>
.1	Rubber
.11	Latex
.13	Crude rubber. Crêpes. Sheets
.14	Various rubber objects. Sheets. Rings. Toys. Sponge. <i>Subdivide like 621-4</i>
.15	Rubber tyres
.16	Rubber coated fabrics
.17	Various articles. Rubber shoes. Rubber gloves. Rubber floor-covering, etc.
.18	Solution and objects manufactured therefrom
.19	Products from latex
.4	Ebonite
678.5	<b>Gutta percha and balata</b>
.51	Gutta percha
.52	Balata
.53	Chewing gum

678.7	<b>Products allied to rubber</b>
.72	Artificial rubber
.73	Various rubber substitutes
.75	Reconstituted rubber
.77	Synthetic rubber
.78	Rubber derivatives
.782	Chlorinated rubber
678.9	<b>Various rubber problems. Distillation of rubber</b>
679	<b>VARIOUS OTHER INDUSTRIES FOR HOMOGENEOUS PRODUCTS</b>
679.1/.4	<b>Natural, processable materials</b>
.1	Amber. Meerschaum
.2	Mother of pearl
.3	Coral
.4	Corozo. Ivory nut
679.5	<b>PLASTICS INDUSTRY IN GENERAL</b>
.51	Celluloid
.52	Various plastics based on cellulose
.53	Plastics based on celluloid waste and cellulose esters
.54	Plastics based on proteins
.55	Plastics based on natural resins
.56	Plastics based on synthetic resins, particularly polycondensation resins
.562	Phenol-aldehyde resins. Phenoplasts
.57	Plastics based on other synthetic resins, particularly polymerization resins
.58	Plastics based mainly on paraffins, waxes, etc.
.59	Plastics based on other materials
679.8	<b>Stone industry. Dressing of natural stone. Stone cutting</b>
.8.0	<b>Special Auxiliary Numbers</b>
.02	Processes
.05	Appliances. Implements
.84/.89	Processing of various kinds of stone. Various products
.84	Stone objects of various forms. <i>Subdivide like 621-4</i>
.85	Natural stone for building trade
.86	Various kinds of non-precious stone. <i>Subdivide like 553.6</i>
.87	Costly kinds of stone. Semi-precious stones. Malachite. Jade, etc.
.88	Dressing of artificial stone. <i>Subdivide like 666.8</i>
.89	Other kinds of stone. Diamonds and drawing stones

## 68 Manufacture of Complex Objects

681	<b>FINE MECHANISMS. CLOCKS AND WATCHES. MUSICAL INSTRUMENTS</b>	681.141	Arithmetical instruments. Arithmometers
		.142	Calculating instruments. Equation solving instruments
681.1	<b>Wheelwork and driving mechanisms</b>	.143	Logarithmic instruments. Slide rules
.11	Watches. Clockwork. Chronometers. <i>See also 529.78</i>	.17	Control mechanisms and registers
.12	Consumption meters. Gas meters. Water meters. Speedometers. Taximeters	.171	Cash registers
.13	Automatic machines for sales, amusement, etc.	.172	Coin, selecting, sorting and exchanging apparatus
.14	Calculating instruments. Counting mechanisms	.173	Printing, controlling and distributing machines. Franking machines. Ticket machines
		.174	Apparatus for controlling workmen and employees

1.175	Various time-control apparatus. Time and date stamps	681.88	Directional listening. Devices for measuring sound. Listening devices
.176	Lottery and ballot contrivances. Totalizators	.892	Apparatus for registering vibrations
.177	Statistical mechanisms. Punched card machines	681.9	Engraving and sculpting machines. Reproduction of relief figures
.5	Card sorting		
.6	Tabulating	682	<b>SMALL FORGE WORK. BLACK-SMITHERY. FURNISHING AND BUILDING IRONWORK</b>
.178	Mail sorting machines	.1	Farriery
.18	Sorting machines in general. Cryptographic machines	.3	Edge-tools
31.2	<b>Instrument making. Instrumentology</b>	.4	Various forged tools. Hammers. Pincers, etc.
	<i>Note: The manufacture of instruments is classified under 681.2 with sign of Relation : and specific number for each instrument. E.g. 681.2:526.33 Manufacture of surveying instruments</i>	.5	Furnishing ironwork
.08	<b>Special Auxiliary Numbers</b>	.6	Building ironwork
	Principles of measurement and of construction of instruments	683	<b>HARDWARE. IRONMONGERY. LAMPS AND STOVES</b>
.081	Units. Constants	683.1/.4	<b>Ironmongery. Locks. Weapons</b>
.082	Principles of measurement. Use of mechanical, optical, electrical and other physical phenomena	.1	Hardware and ironmongery in general
.083	Methods of measurement. Compensation method. Zero method	.3	Locks. Suspension and closure devices
.084	General construction of instruments	.31	Bolts
.085	Indicating devices. Scales	.33	Locks
.087	Observation. Recording	.34	Safes
.088	Errors. Corrections	.35	Catches. Chains. Espagnolettes
.089	Coupling. Gauging. Calibration. Testing	.36	Hinges
.26	Weighing machines. Balances. Steelyards. Weights	.37	Various hanging and closing devices for doors and windows
681.3	<b>Apparatus in blown glass</b>	.4	Gunsmiths' craft. <i>Subdivide by using the sign of Relation : with the subdivisions of 623.44</i>
681.4	<b>Optical instruments. Spectacles. Telescopes. Binoculars. Microscopes</b>	683.5/.9	<b>Various household hardware. Lamps and stoves</b>
.42	Lenses	.5	Containers and other utensils for pouring or drinking purposes. Closing and filling devices. Tapping devices. Corkscrews
.43	Mountings. Frames	.8	Lamps. Burners. Kindling devices. Gas fitters' materials
.45	Trial cases	.84	Lamps. Lamp fittings
681.6	<b>Manifolding and copying machines. See also 655 Printing</b>	.85	Reflectors. Shades
.61	Typewriters. Shorthand and typesetting machines	.86	Containers and devices for feeding lamps. Wicks
.612	Ordinary typewriters	.868	Incandescent mantles
.613	Special typewriters. Typewriters for embossing characters for the blind. Stenographic machines	.87	Burners
.614	Typesetting machines in general	.88	Kindling and extinguishing devices
.615	Printers' type. Type. Type casting	.9	Stoves. Grates. Ranges. Heating appliances. Hot water apparatus
.616	Tools and machines for typesetting	.93	Open grates
.617	Methods of making and reproduction of printing forms	.94	Stoves. Oil, gas, electric fires
.62	Printing and copying machines and presses. Mimeographs. Cyclostyles. Folding machines. Perforating machines	.95	Kitchen ranges
.64	Other manifolding machines	.96	Portable and small heating appliances. Braziers
.65	Various accessories	.97	Geysers. Hot water apparatus
581.8	<b>Technical acoustics. Musical instruments. Recording and reproduction of sound</b>	.98	Pokers, tongs and other hardware
.81	Musical instruments in general. Instruments played non-mechanically	684	<b>COACHBUILDING. ORNAMENTAL FURNITURE MAKING. CABINET MAKING. SOFT FURNISHING. UPHOLSTERY</b>
.816/.819	<i>Subdivide like 786/789; e.g. 681.817 String instruments</i>	.2	Coach work. Coach building
.82	Mechanical instruments	.5	Cabinet makers' work
.83	Auxiliary devices. Metronomes. Stands	.6	Inlaying and marquetry. Veneering
.84	Sound recording and reproduction. Talking machines. Dictaphones. Gramophones	.7	Soft furnishing. Upholstery
.85	Records, disks, cylinders and other accessory parts	685	<b>LEATHER WORK. ACCOUTREMENTS. TRAVEL, SPORTS AND RECREATION REQUISITES. See also 79</b>
		685.1/.4	<b>Leather work. Harness. Footwear. Walking gear. Gloves</b>
		.1	Saddles. Spurs. Harness

685.2	Leather goods. Various equipment in leather and material	687	<b>CLOTHING. READYMADE CLOTHING. SEWING MACHINES. TOILET ARTICLES. BRUSHES.</b> <i>See also</i> 645.48; 646; 685.3/.4
.3	Footgear. Walking gear		Generalities
.31	Boots and shoes		Sewing machines and various sewing accessories
.32	Clogs	.0	Clothing fasteners
.36	Skates. Roller skates. Skis	.053	Readymade clothing industry. Tailoring
.37	Stilts. Jumping poles		Linen goods. Underwear
.38	Crutches. Wooden legs and similar appliances	.078	Accessories. Stockings. Collars. Cuffs
.4	Gloves. Mittens	.1	Household linen
685.5/.7	<b>Travel, walking and sports equipment</b>	.2	Knitted goods. Ties. Braces. Belts, etc. <i>See also</i> 685.4
.5	Travel equipment	.25	Hat manufacture. Headgear
.51	Travel goods of leather and fabric. Trunks. Bags. Rucksacks	.26	Hairdressing, manicure and pedicure requirements. Toilet articles
.53	Camping equipment. Tents, hammocks, etc.	.3	Artificial fur
.54	Straps and other personal equipment	.4	Brush manufacture. Brooms
.55	Umbrellas. Parasols. Walking sticks	.5	
.6	Sports goods. Gymnastic apparatus	.8	
.62/.64	<i>Subdivide like</i> 796.2/.4	.9	
.65	Equipment for ice rinks, toboggan runs, racecourses	688	<b>FANCY GOODS. TOYS. DECORATION WORK</b>
.68	Equipment for athletic sport, for boxing, etc.	.1	Ivory goods
.7	Equipment for climbing and swimming	.2	Buttons and button manufacture
685.8	<b>Requisites for various games</b>	.3	Satchels. Purses. Cases. Small leather goods. Sheaths
.81	Card games	.4	Artificial flowers, plants and fruit. Feathers and hair work
.82	Games of chance. Dice. Roulettes, etc.	.5	Fans
.84	Board games. Chess and draughts	.6	Lampshades. Screens
.85	Puzzles	.7	Toys. Articles for entertainment. Joke articles
.86	Party games	.72	Toys. Dolls. Mechanical toys. Toy soldiers
.87	Billiards	.73	Children's musical instruments
686	<b>BOOKBINDING. GILDING. SILVERING. MIRRORS AND FRAMES. GLAZIERY. WRITING AND OFFICE NECESSITIES</b>	.74	Properties for theatres, panoramas, circuses, etc. Scenery
.1	Bookbinding	.75	Joke articles. Masquerade articles
.4	Gilding. Silvering. Bronzing. Metal veneering	.76	Street decorations and illuminations for processions and ceremonies
.5	Frame making	.77	Equipment for fairs. Swings. Merry-go-rounds
.6	Glazery	.78	Decorative work. Decalcomania. Niello. Reliefs. Surface decoration
.7	Mirrors	.79	Various decorative effects
.8	Office necessities. Office articles. Calendars. School necessities	.9	Various small articles
.83	Dossiers. Letter holders	.92	Various knick-knacks. Holders and carriers for flowers, etc.
.84	Card systems	.93	Smokers' requisites. Pipes
.863	Penholders. Fountain pens. Pencils	.94	Match boxes and holders
.87	Office furniture	.95	Fasteners for boxes, cases, etc.
.88	Drawing and painting articles	.96	Money boxes

## 69 Building Industry and Trades. Building Construction

*See also* 624/628 and 71/72

69.00	<b>Building practice and industry</b>	69.009.187	State control of building. Licences, priorities, etc.
	<i>Common Subdivisions of Point of View</i>		
.001.3	Building specifications	69.02/.07	<b>Structural elements of buildings, location, methods of construction. Structural calculations</b>
.003.1	Economic aspect of building		<i>Special Auxiliary Numbers. Subdivide as</i> 624.02/.07. <i>E.g.</i> 69.026 <i>Stairs</i>
.12	Estimates. Quantities. Costs		
.2	Financial and legal aspect. Tenders. Contracts. <i>See also</i> 333.32; 333.6; 334.1; 347.26; 347.454.3; 351.712		
.008	Organization and management of building contracts	691	<b>BUILDING MATERIALS</b>
.009.18	Official control of building		<i>See also</i> 620.1. Properties
.182	Building regulations aspect	.1	Materials of organic origin
.183	Building supervision, control, inspection	.11	Wood, timber. <i>See also</i> 674.03

91.14	Paper. <i>See also</i> 676	694.3/.5	Framing and roof work. Wooden beams, columns and posts, etc.
.15	Other vegetable fibres	.6	Joinery: Doors. Windows. Floors. Skirtings. Panelling, etc.
.16	Bituminous materials. Asphalt	.8	Wooden staircase construction. <i>See also</i> 69.026
.18	Materials of animal origin		
.2	Natural stones. Slate. Marble. <i>See also</i> 553.5; 679.8	695	<b>Roofing. Slating. Tiling</b>
.3	Concretes. Agglomerates. Mortars. Composite materials		Roofing materials. <i>Subdivide as</i> 691. <i>E.g.</i> 695.7 <i>Metal roofing</i>
.31	Artificial stone agglomerates		
.32	Concretes. Reinforced concretes. <i>See also</i> 666.9	696/698	<b>EQUIPMENT. SERVICES</b>
.33	Various agglomerates and composite materials. Plastics. Wall-boarding	696	<b>Equipment in general. Plumbing. Sanitary installation. <i>See also</i> 682; 683</b>
.4	Clay products and building ceramic products. Pisé. Terra-cotta. Stoneware. Brick. <i>See also</i> 666.3/.7	.1	Plumbing. Sanitary installation. Fittings. <i>See also</i> 628.6
.5	Limes. Mortars. Cements. Plasters. Binding materials. Mastics. <i>See also</i> 666.8/.9	.2	Gas installation
.51	Limes	.3	Steam installation. <i>See also</i> 621.18
.52	Sand. Gravel. Hardcore	.4	Hot water installation
.53	Mortars	.5	Pneumatic installation
.54	Cements	.6	Electric wiring of buildings
.55	Plasters		<i>See also</i> 621.315/6 <i>Electrical installation; 628.9 Illumination</i>
.56	Mortar rendering		
.57	Size coats and paints	697	<b>Heating and ventilation</b>
.58	Flexible mastics	.1	General theory. Heating space. Heat losses. Insulation. Heating with open fire places
.59	Other materials	.2	Heating by incandescent fires or stoves. <i>See also</i> 683.93/.94
.6	Glass. <i>See also</i> 666.1	.3	Central heating. Hot air heating
.7	Metals. Iron. Steel. <i>Subdivide as</i> 669	.4	Hot water heating
.8	Building components. Units of construction	.5	Steam heating
.88	Fixing devices. Anchors. Ties. Dowels. Wedges. Nails, etc.	.7	Other methods. Electric
		.8	Chimneys
693/695	<b>SITE CONSTRUCTION. ASSEMBLY. VARIOUS TRADES</b>	.9	Ventilation. Air-conditioning. Cooling
693	Masonry construction in stone, brick, concrete and agglomerates. Plasterwork. Tiling	698	<b>Various other building trades. Painting. Glazing. Paperhanging</b>
.1	Stonemasonry. <i>See also</i> 679.85	.1	Painting of buildings. <i>See also</i> 667.6/.7
.2	Bricklaying	.3	Glazing
.3	Construction in pisé or terra-cotta	.6	Paperhanging
.4	Construction in hollow bricks, etc.	.7	Carpets. Tapestry. Linoleum
.45	Assembly of structures of large prefabricated components	.8	Leather. Rubber
.5	Concrete construction. Construction in various artificial stones	.9	Refuse disposal installations. <i>See also</i> 628.4
.55	Reinforced-concrete construction		
.6	Plastering and other finishes. Ceiling construction	699.8	<b>PROOFING, INSULATED AND PROTECTIVE CONSTRUCTION</b>
.7	Paving work. Tile laying. <i>See also</i> 625.8	.81	Fire-resisting construction. <i>See also</i> 614.84
.9	Framed construction. Construction of various combinations of materials. <i>See also</i> 624.93/.94	.82	Water-proof, damp-proof construction. Drying
.95	Concrete-framed construction	.83	Storm-proof construction
.97	Steel-framed construction	.84	Construction proof against earthquake and vibration. <i>See also</i> 534.83 <i>Sound proofing</i>
694	<b>Carpentry. Joinery. <i>See also</i> 674</b>	.85	Air-raid protective construction. Shelters
.1	Building construction in wood in general	.86	Thermal insulation
.2	Assembly. Joints of woodwork	.87	Measures against dust, dry-rot, insects, vermin
		.88	Measures against various influences: light electricity, magnetism



## 7 FINE ARTS. APPLIED ARTS. ARCHITECTURE. ENTERTAINMENT. SPORT

*See also* 069; 176.7; 246; 291; 343.533; 347.78; 351.85; 351.852/.854; 39; 571; 655; 8; 8.085; 929.6; 930.26

- 7.0 **GENERALITIES.** *Special Auxiliary Numbers. These Auxiliary Numbers are for application to 71/76 and 78/79, not to 77; e.g. 75.033.5(493) Gothic in South Netherlands painting*
- 7.01 **Aesthetics**
- 7.02 **Art technique**
  - .021 Working methods. Processes
  - .022 Tools, apparatus, installations
  - .023 Materials
  - .024 Accessory materials
  - .025 Care, maintenance and restoration of works of art
  - .026 Copies. Reproductions. Facsimiles. Casts. *See also* 7.061
- 7.03 **Periods. Styles.** *The various styles are specified by means of the Common Auxiliary Numbers of Place and Time*
  - .031 Styles of primitive peoples. *See also* 571
  - .032 Styles of antiquity. Ancient Oriental styles. Classical styles. *See also* 571.8
  - .033 Mediaeval styles
    - .2 Byzantine
    - .3 Islamic
    - .4 Romanesque
    - .5 Gothic
  - .034 Modern styles up to 1830
    - .1 Renaissance in general
    - .7 Baroque
    - .8 Rococo
  - .035 Styles between 1830 and 1900
  - .036 Modern, contemporary styles
  - .039 Styles considered from various aspects
    - .2 Conventional styles
    - .3 Utilitarian styles
    - .5 Exotic styles
- 7.04 **Subjects for artistic representation. Iconography. Iconology.** *See also* 246
  - .041 Human beings. Portraits. Genre
  - .042 Animals. Fabulous animals
  - .043 Plants. Trees. Flowers. Fruits
  - .044 Historical representations. War scenes. *See also* 394
  - .045 Symbols. Allegories. Dance of death
  - .046 Mythological and religious representations. *See also* 291
  - .047 Landscapes. Seascapes
  - .048 Linear ornament. *See also* 744
  - .049 Other subjects
- 7.05 **Practical application of art and design**
- 7.06 **Various questions**
  - .061 Counterfeiting. *See also* 7.026
  - .067 Various types of art. Folk art. Official art, etc. *See also* 398
- 7.07 **Kinds of art occupation.** *See also* 92(A/Z)
  - .071 Artists
  - .072 Art experts. Art theorists, critics, historians. *See also* 8.09
  - .072.5 Scientific appraisal
  - .073 Art collectors
  - .074 Art patrons. Patronage of art by private persons
  - .075 Art dealers. Antiquarians. Trade in art. Agents. Theatrical directors. Impresarios
  - .078 Official patronage of fine art. Governmental patronage of art. *See also* 343.533; 347.78; 351.854

- 7.08 **Various forms of art work. Composition. General form**
- 7.09 **Other questions**
  - .091 Performances
  - .092 Competitions. Awards.

## 71 Town and Country Planning. Landscape and Garden Design. Preservation of Amenities

- 711 **TOWN AND COUNTRY PLANNING. LAND UTILIZATION**
  - 711.1 **Generalities. Development. Planning schemes.** *See also* 912
    - .2 Planning of units larger than regions. National planning
    - .3 Regional planning
    - .4 Town planning. Built-up areas
    - .5 Zoning. Specialized areas
    - .6 Site-planning. Grouping
      - .62 Detached and terrace houses
      - .63 Apportionment. Division of sites
      - .64 Alignments. Frontage line. Density
      - .65 Height of buildings
    - .7 Traffic routes: road, rail, water and air. *Subdivide by sign of Relation : and appropriate subdivisions of* 624; 625; 626; 656
- 712 **LANDSCAPE DESIGN. GARDENS.** *See also* 58; 634.9; 635
  - .1 Types: formal, landscape, etc.
  - .2 Parks and gardens, public and private
  - .3 Garden planning, lay-out
  - .4 Vegetation. Trees, plants and lawns. *See also* 58; 634.9
  - .5 Water features. Lakes, fountains, etc.
  - .6 Structural features. Pavilions, bridges, steps, etc.
- 718 **Cemetery design.** *See also* 726.8; 73
- 719 **PRESERVATION OF RURAL AND URBAN AMENITIES. NATURE RESERVES. NATIONAL PARKS. NATURE MONUMENTS**
  - .3 Preservation of urban amenities
  - .6 Nature reserves and national parks

## 72 Architecture

*See also* 333.6; 347.24; 347.56:72; 351.71; 613.5; 624/628; 658.2; 69; 711/719; 74

- 72.0 **GENERALITIES.** *Special Auxiliary Numbers*
  - .01 General aesthetics of architecture
  - .011 Plan and section
  - .012 Elevation
  - .03 Periods and styles of architecture. *Subdivide like* 7.03

- 725 **CIVIL AND INDUSTRIAL ARCHITECTURE. PUBLIC BUILDINGS. BUSINESS AND INDUSTRIAL BUILDINGS.** *See also* 71
- 725.1 **Public administrative and public service buildings.** *See also* 725.5
- .11 Houses of Parliament. Capitols, etc.
  - .12 Ministries. Government offices
  - .13 Town halls. Municipal buildings. General buildings for public services
  - .14 Revenue buildings. Customs houses, mints, etc.
  - .15 Law courts. Courts of Justice. Tribunals
  - .155 Records offices
  - .16 Post, telegraph and telephone buildings
  - .17 Royal, presidential, official residences
  - .18 Military and police buildings. *See also* 355.7; 623.47
  - .19 Other public service buildings. Fire stations, power stations, etc.
- 725.2 **Commercial buildings. Offices**
- .21 Shops. Departmental stores
  - .22 Mixed buildings consisting of shops, offices and housing accommodation
  - .23 Office buildings in general. Insurance buildings. *See also* 651.1
  - .24 Banks. Savings banks
  - .25 Exchange buildings
  - .26 Market halls. *See also* 381.1; 624.9
  - .27 Livestock markets
  - .28 Slaughter houses
  - .29 Other commercial buildings
- 725.3 **Buildings for transport and storage**
- .31 Station buildings.
  - .32 Goods stations
  - .33 Various railway buildings. *See also* 625.26; 656.2
  - .34 Port and harbour works. Landing stages. Docks. Lighthouses. *See also* 627; 656.6
  - .35 Warehouses. Wharves. *See also* 624.9
  - .36 Silos
  - .37 Vehicles and vessels, architectural aspect. *See also* 625.2; 629.1
  - .38 Garages. Filling and service stations. *See also* 728.9
  - .39 Airport buildings. Hangars. *See also* 624.9; 629.139; 656.7
- 725.4 **Industrial buildings. Mills, works, factories, etc.** *Subdivide by means of sign of Relation : ; e.g. 725.4 : 663.4 Breweries. Maltheuses. See also* 621.7
- 725.5 **Hospitals. Social welfare buildings**
- .51 Hospitals for sick and wounded. Maternity homes
  - .52 Mental hospitals
  - .53 Establishments for mental defectives
  - .54 Institutions for the blind and the deaf and dumb
  - .55 Poor houses. Workhouses
  - .56 Homes for the aged
  - .57 Children's welfare buildings. Infant, child, ante-natal clinics
  - .58 Foundling hospitals
  - .59 Other homes and refuges
  - .599 Animal refuges and hospitals
- 725.6 **Prisons. Reformatories, etc.**
- 725.7 **Restaurants. Baths. Park buildings**
- .71 Restaurants. Cafés. Milk bars, etc. *See also* 728.4/.5
  - .72 Public houses. Bars. *See also* 728.5
- 725.73 Baths. Thermal and medicinal baths
- .74 Swimming baths, covered and open-air
- .75 Various buildings for watering places, and health resorts. Casinos. Kursaals
- .76 Various park and garden buildings. Bandstands, etc. *See also* 712
- 725.8 **Buildings for public entertainment and recreation**
- .81 Music rooms. Audition chambers. *See also* 725.76
  - .82 Theatres, opera houses, cinemas, dance halls, etc.
  - .824 Concert halls
  - .826 Amphitheatres for various amusements. Stadia
  - .83 Assembly and lecture halls. Village halls
  - .84 Buildings for ball games. Billiards rooms, etc.
  - .85 Gymnasias. *See also* 685.64
  - .86 Cycle, motor and ice rinks
  - .87 Buildings for aquatic sports
  - .88 Riding schools
  - .89 Other recreation buildings. Race courses. Rifle ranges. Tennis courts
- 725.9 **Various public buildings**
- .91 Exhibition buildings. *See also* 061.4
  - .92 Temporary buildings. Huts
  - .94 Monuments. Triumphal arches. *See also* 726.8; 73
  - .95 Monumental bridges. *See also* 624.2/.8
  - .96 Gates and walls (Town gates and walls). *See also* 623.1
- 726 **ECCLESIASTICAL ARCHITECTURE. SACRED ARCHITECTURE.** *See also* 246/247; 72.03; 729.9
- .1 Temples. Sanctuaries. Pagodas
  - .2 Mosques. Minarets
  - .3 Synagogues. Jewish temples
  - .4 Chapels
  - .5 Churches
  - .6 Cathedrals
  - .7 Monasteries. Convents. Abbeys, etc.
  - .8 Funerary architecture. Tombs, crypts, memorials, etc.
  - .9 Other religious buildings: parsonages, etc.
- 727 **BUILDINGS FOR EDUCATION, SCIENCE, ART, ETC.**
- .1 Schools. Elementary and national schools
  - .2 Intermediate schools. Boarding schools. Seminaries
  - .3 Universities. Colleges
  - .4 Vocational schools. Schools for professional training. Technical schools
  - .5 Scientific laboratories. Research institutes. *See also* 542.1; 614.3; 615.12; 727.9; 771.1
  - .6 Science museums. Natural history museums. Botanic and zoological garden buildings. *See also* 069.2
  - .7 Art museums. *See also* 069.2
  - .8 Libraries. *See also* 022
  - .9 Others
  - .91 Observatories. *See also* 522.1
  - .92 Meteorological institutions
  - .94 Broadcasting stations. Studios
  - .95 Buildings for scientific associations, for societies, etc.
- 728 **DOMESTIC ARCHITECTURE.** *See also* 725.17; 726.9
- .1 Small houses. Workers' dwellings, urban and rural. *See also* 331.83; 333.32; 334.1

- 728.18 Temporary houses
- .2 Houses consisting of more than one dwelling.  
Tenement houses. Flats
- .3 Urban houses
- .31 Terraced houses
- .34 Semi-detached houses
- .37 Detached houses
- .4 Club buildings
- .5 Hotels. Inns. *See also* 725.7
- .54 Hospices. Students' hostels. Youth hostels,  
etc.
- .6 Rural domestic architecture. Farm buildings and  
cottages. *See also* 631.2, 728.1
- .7 Summer dwellings. Movable dwellings. Chalets
- .77 Houseboats
- .8 Country buildings and houses
- .81 Fortified castles. *See also* 623.1
- .82 Castles
- .83 Manor houses
- .84 Villas. Country houses
- .9 Outbuildings. Stables, garages, barns, and  
dependencies. *See also* 636.083; 643/645

## 729 ARCHITECTURAL DETAILS, DECORATION AND FITTINGS

- .1 Architectural decoration in general
- .3 Basic forms. Architectural elements. *See also*  
69.02
- .31 Walls. Cornices, mouldings. Buttresses
- .32 Piers, columns, colonnades, etc. The Orders
- .33 Arches. Arcades
- .34 Vaults. Domes. Niches
- .35 Roofs. Roof openings. Dormers
- .36 Towers. Campaniles, minarets, etc.
- .37 Gables. Pediments
- .38 Doors, gates, windows
- .39 Various: balconies, staircases, verandahs, etc.
- .4 Painted decoration on buildings. *See also* 698.1;  
747
- .5 Decoration in relief. *See also* 73
- .6 Facings: plaster, panelling, etc.
- .7 Mosaics
- .8 Vitreous decoration. Stained glass. *See also*  
666.1; 748
- .9 Fittings. Fixed and built-in furniture (e.g. altars,  
choir stalls, thrones, pulpits, etc.). *See also*  
645; 749

## 73 Sculpture

*See also* 679.8; 681.9; 726.8; 729.5

### 73.0 GENERALITIES. *See* 7.0

## 736 STONE AND METAL CARVING. SIGILLOGRAPHY

- .2 Carved stones. Cameos. Engraved stones.  
*See also* 417
- .3 Sigillography. Sphragistics. Seals. Dies. *See*  
*also* 929.6

## 737 NUMISMATICS

- .1 Coins. *See also* 332.4; 343.51; 351.822; 417;  
671.4
- .2 Medals. *See also* 671.41; 929.7
- .3 Tokens

## 738 CERAMIC ART. ART POTTERY. *See also* 571; 666.3/.7; 691.4

- .1 Porcelain
- .2 Majolica
- .3 Faience and earthenware
- .4 Enamel. Cloisonné
- .5 Mosaic. *See also* 729.7
- .6 Terra cotta
- .8 Various ceramic articles
- .84 Tanagra

## 739 ARTISTIC METALWORK. *See also* 671/673; 749

- .1 Gold- and silver-smiths' art. *See also* 247;  
671.1; 736
- .2 Jewellers' art. *See also* 391.7; 646.7; 671.1
- .3 Artistic horology. Timepieces. *See also* 681
- .4 Artistic ironwork. Artistic locksmiths' work
- .5 Art objects of non-precious metals. Copper, etc.
- .7 Artistic armour and weapons. *See also* 355.8;  
623.4; 683.4
- .8 Curios and bric-à-brac. Antiques

## 74 Drawing. Industrial Art

### 741/744 DRAWING

- 741 Drawing in general. *See* 7.0
- .5 Caricature
- .9 Collections of drawings
- 742 Perspective (drawing). *See also* 515.6
- 743 Anatomy (drawing). *See also* 611
- 744 Line drawing. Technical drawing. *See also* 515;  
621.71
- .3 Accessories. Drawing boards, compasses, etc.
- .4 Methods. Rules. Instructions
- .5 Reproductions. Tracing
- .8 Storage

### 745/749 INDUSTRIAL ARTS. *See also* 738/739

- 745 Decoration. Decorative art. *See also* 091;  
096; 391; 655; 7.048; 729.4; 73; 76
- .03 Styles of decoration
- .04 Subjects for ornamental decoration. *See also*  
688.7
- .5 Industrial art in the narrower sense. *See also*  
635.966; 738/739; 746/749
- 746 Art needlework. Tapestry. *See also* 646.2; 677.6
- 747 Interior decoration in general. Exterior decora-  
tion in general. *See also* 645; 729.4
- 748 Glass. Crystal. *See also* 666.1/.2; 698.3; 729.8
- 749 Furnishing art. Domestic interiors. Lamps.  
Heating apparatus. *See also* 645; 674.2;  
684.5/.6; 697; 739

## 75 Painting

- 753 Epic and mythological subjects
- 754 Genre paintings. Anecdotal subjects
- 755 Religious paintings
- 756 Historical paintings
- 757 Portrait painting. The nude
- 758 Nature paintings
- .1 Landscapes
- .2 Seascapes
- .3 Animals
- .4 Still life
- 759 Various. Paintings of armorial bearings. *See*  
*also* 929.6

## 76 Engraving. Prints

See also 737.1/2; 741; 774/777

- '61 Relief engraving. Woodcuts
- '62 Intaglio engraving. Copper engraving, etching, etc.
- 763 Flat printing. Lithography
- 768 Mechanical engraving. See also 621.357
- 769 Collections of etchings and prints

## 77 Photography

- 77.0 GENERALITIES. *Special Auxiliary Numbers.*
- 77.01 General Theory
  - .011 Physical effects of light
  - .012 Chemical effects of light. See also 541.14  
*Photochemistry*
- .02 General technique
  - .021 Manufacture of sensitive materials
  - .022 Operations relative to exposure of sensitive materials
  - .023 Processing of sensitive materials
- .4 Development
  - .024 After-treatment of photographic records
  - .025/.026 Preservation, deterioration and defects of negatives and prints
  - .027 Regeneration of baths, and recovery of materials
- .08 Direct positives. Reversal
- 771 PHOTOGRAPHIC PREMISES, APPARATUS AND MATERIALS
  - .1 Buildings and rooms for photographic work
  - .2 Furniture, plant and fittings
  - .3 Cameras, enlargers and their accessories
  - .35 Photographic lenses, diaphragms and filters
  - .36 Shutters
  - .37 Accessories, e.g. view-finders, range-finders, exposure meters
  - .4 Other apparatus, e.g. contact printers, processing machines, light sources, etc.
  - .5 Raw materials and properties of photographic sensitive materials
    - .51 Colloidal media
    - .52 Supports and special layers
    - .53 Sensitive plates, papers, and films
    - .534 Sensitivity
      - .1 General sensitivity and sensitizers
      - .2 Wavelength sensitivity and sensitizers
      - .3 Desensitizers
      - .5 Sensitometry. Densitometry
    - .55 Properties of the final photographic image, e.g. resolving power
  - .535 Latent image
- 772 PROCESSES BASED ON THE LIGHT SENSITIVITY OF INORGANIC COMPOUNDS
  - .1 Processes using silver salts
    - .11 Silver salts on metal. Daguerreotype
    - .12 Silver salts on paper. Calotype, etc.
    - .13 Silver salts with coating (other than collodion), sensitized by bathing. Albumen papers
  - .14 Collodion processes
  - .15 Processes using emulsions of silver salts
  - .2 Processes using salts of iron, manganese, cobalt or nickel
  - .3 Processes using salts of platinum, palladium, gold or iridium

- 773 PROCESSES BASED ON THE LIGHT SENSITIVITY OF ORGANIC COMPOUNDS
  - .1 Pigment ("Carbon") processes
  - .3 Imbibition processes
  - .6 Photoceramics
  - .7 Processes using light-sensitive dyes or dye-intermediates. Diazo. Bleach-out
  - .8 Oil pigment processes. Bromoil

## 774/777 PHOTOMECHANICAL PRINTING PROCESSES

- 774 Processes using fatty inks on a layer of colloidal substance
  - .1 Collotype
- 775 Photolithography on stone
- 776 Photolithography on other surfaces, e.g. metals, Photo offset plates
  - .7 Special processes for rendering tonal gradation
- 777 Intaglio and relief processes. Photogravure. Letterpress relief blocks (Line Half-tone). Woodburytype, etc.
  - .1 Photogravure
  - .2 Relief printing plates, line half-tone plates or blocks
  - .3 Translating continuous tone to discontinuous tone elements. Screen negatives

## 778 APPLICATIONS OF PHOTOGRAPHY

- .1 Copying. Enlargements. Reductions
  - .11 Contact printing, including reflex printing
  - .13 Enlargements
  - .14 Reductions, including microphotography
- .2 Projection. Apparatus. Screens. Lantern slides
- .3 Scientific and technical applications
  - .31 Photomicrography (making magnified images of microscopic objects)
  - .32 Telephotography
  - .33 Radiography. Photography with X-rays and γ-rays
  - .34 Photography with other rays. Ultra-violet and infra-red
  - .35 Aerial photography
  - .37 High-speed photography
  - .38 Photogrammetry
- .4 Stereoscopic photography. Taking and viewing
- .5 Cinematography
  - .53 Taking
    - .534.4 Photographic sound recording
    - .8 Time-lapse and high-speed cinematography
  - .55 Projection
    - .55.53 Subdivide like 778.53
  - .6 Colour photography
  - .8 Photographic amusements and illusions

## 779 COLLECTIONS OF PHOTOGRAPHS

## 78 Music

See also 347.785; 612.85; 681.81; 725.81/.82; 792; 792.8

- 78.0 GENERALITIES. *Special Auxiliary Numbers.*  
See 7.0
- 781 Theory of music
  - .1 Scientific bases. See also 534
  - .15 Rhythm
  - .2 Technical theory. Notation. Nomenclature
  - .4 Musical harmony. Counterpoint. Melody

- 781.5 Musical form  
.6 Composition. Instrumentation. Orchestration. Interpretation
- 782/785 KINDS OF MUSIC
- 782 Dramatic music. Opera. Light opera
- 783 Ecclesiastical and sacred music. *See also* 245
- 784 Vocal music. *See also* 398.8; 612.78; 8.083  
.5 Secular oratorios and cantatas. Choral works with orchestral accompaniment
- 785 Instrumental music  
.1 Orchestral music  
.11 Symphony orchestra  
.12 Wood wind and brass band  
.13 Military music  
.16 Light orchestra. Jazz band  
.4 Programme music  
.6 Concertos  
.7 Chamber music
- 786/789 MUSICAL INSTRUMENTS. MUSIC FOR THESE INSTRUMENTS. *See also* 681.81
- 786 Keyboard instruments. *See also* 681.816  
.1 Harpsichord, etc.  
.2 Piano  
.6 Organ  
.7 Harmonium  
.8 Accordion
- 787 String instruments. *See also* 681.817  
.1 Violin  
.2 Viola  
.3 Violoncello  
.4 Other bow instruments  
.5 Harp  
.6 Guitar. Mandoline. Zither  
.9 Other string instruments
- 788 Wind instruments. *See also* 681.818  
.1 Trumpet  
.2 Trombone  
.3 Cornet  
.4 French horn. Saxophone. Bass tuba, etc.  
.5 Flute  
.6 Clarinet  
.7 Oboe  
.8 Bassoon and contra-bassoon  
.9 Other wind instruments. Alpine horn, ocarina, etc.
- 789 Percussion and mechanical instruments. *See also* 681.819  
.1 Drums. Tympani  
.2 Cymbals  
.3 Triangle  
.4 Tambourine  
.5 Bells. Chimes. *See also* 673.5  
.6 Xylophone. Celeste, etc.  
.9 Mechanical instruments. Pianolas. Orchestrions. *See also* 681.82

## 79 Recreation. Amusement. Games. Sport. *See also* 685

- 79.0 GENERALITIES. *Special Auxiliary Numbers. See* 7.0  
.092.2 Contests. Championships

- 791/792 PUBLIC ENTERTAINMENTS. PERFORMANCES. *See also* 394
- 791 Public entertainment. Public entertainments and performances. *See also* 688.74  
.1 Fairs. Equilibrists. Jugglers. Conjurers. Ventriloquists, etc.  
.2 Public musical performances  
.3 Circuses  
.4 Film shows  
.43 Kinds of film  
.44 Film production  
.45 Cinema shows  
.6 Processions. Public festivities. Pageants. Illuminations. *See also* 394  
.7 Funfairs. Roundabouts. Greasy pole, etc.  
.8 Menageries. Trained animals  
.9 Other amusements
- 792 Theatre. Dramatic performances. *See also* 688.74; 725.82; 782; 793.1; 8...-2  
.04 Theatrical materials. Décor  
.1 Tragedies. Drama  
.2 Comedies. Vaudeville  
.3 Farces. Pantomimes  
.4 Opera. Musical plays  
.5 Comic opera  
.6 Operettas and musical comedies  
.7 Variety and cabaret performances  
.8 Ballets. Revues. Dancing performances. *See also* 793.3  
.9 Gala performances. Open air theatre, etc.
- 793/795 SOCIAL ENTERTAINMENTS AND INDOOR GAMES. DANCING
- 793 Social entertainments. Dancing  
.1 Amateur theatricals. *See also* 792  
.2 Domestic festivities needing preparation; e.g. Christmas festivities, charades, etc.  
.3 Dancing. Balls. Folk Dancing. *See also* 291; 39; 792.8  
.4/.7 Various indoor entertainments. Children's games.  
.8 Guessing games. Scientific recreation. Crossword puzzles, etc.
- 794 Games requiring thought and calculation. *See also* 795.4  
.1 Chess  
.2 Draughts  
.5 Solitaire  
.6 Dominoes  
.7 Billiards
- 795 Cards and games of chance  
.1 Dice games  
.2 Roulette  
.3 Lotto. Mah-jong  
.4 Card games  
.41 Combination games. Bridge  
.42 Card games of chance  
.43 Patience  
.5 Games of chance with objects thrown or rolled
- 796/799 GYMNASTICS. SPORT
- 796 Sport and games in general. Athletics  
.1 Children's open air games. *See also* 371.7; 372.21; 649.5; 688.72  
.2 Motion and dexterity games with special accessories. Skipping rope, marbles, etc.  
.3 Ball games  
.31 Ball games without special accessories. Catch, etc.

6.32	Basket ball	796.8	Athletic sports. Attack and defence sport
.332	Football	.81	Wrestling
.333	Rugby	.83	Boxing
.342	Tennis	.86	Fencing. <i>See also</i> 343.613
.352	Golf	.89	Other athletic sports
.353	Polo	.891	Jiu-jitsu
.354	Pall Mall	.9	Winter sports
.355	Hockey	.91	Skating
.357	Baseball	.93	Skiing
.358	Cricket	.94	Sleighting
.37	Discus and weight throwing	.95	Bobsleigh. Toboggan
.38	Games with aimed throw. Boomerang and javelin throwing	.96	Ice games. Ice hockey
.4	Gymnastics and physical exercise. Physical training. <i>See also</i> 371.7; 615.82	.97	Special ice sports. Ice yachting. Ice racing
.41	Free and ordered exercises. Rhythmic exercises	797	<b>Aquatic sports. Air sports</b>
.42	Running. Marching	.1	Nautical sports. <i>See also</i> 386/387; 527; 629.12; 656.6
.43	Jumping. Balancing exercises	.12	Rowing. <i>See also</i> 371.7
.44	Parallel bars. Horizontal bars. Vaulting horse exercises	.14	Sailing. Yachting
.45	Gymnastics with gymnastic apparatus	.15	Motor boating
.46	Trapezes. Rings	.2	Swimming
.47	Acrobatics	.25	Water polo
.48	Equestrian exercise	.5	Air sports. <i>See also</i> 388.9; 629.13; 656.7
.49	Exercise with various animals	.55	Flying. Gliding
.5	Touring. Mountaineering. <i>See also</i> 64.024; 910.2	798	<b>Equestrian sport. Horse racing. <i>See also</i> 636.1</b>
.51	Hiking. Touring on foot	.2	Riding. <i>See also</i> 636.1.088
.52	Mountaineering. Alpine climbing. <i>See also</i> 368.4; 551	.4	Horse racing. Trotting contests
.54	Camping	.6	Buck riding. Team racing
.6	Cycling. <i>See also</i> 629.118	.66	Horse shows
.7	Motoring. <i>See also</i> 629.113	799	<b>Hunting and Fishing as sport. Shooting</b>
		.1	Fishing. Angling. <i>See also</i> 597; 639.2
		.2	Hunting. <i>See also</i> 639.1
		.3	Shooting

## 8 LITERATURE. BELLES LETTRES

*As far as concerns direct subdivision, the number 8 is subdivided to correspond with 4; e.g.*

20 English philology

20 English literature

*For those who wish to classify philology and literature together the Auxiliary Number .07 is provided under 8. This Auxiliary thus comes into consideration only for optional use, and for those who use it Section 4 is cancelled and becomes:—*

8 Literature. Linguistics. Belles lettres and philology

8.07 Philology in general. The Auxiliary Number .07 may be subdivided like 41

8...07 Philology of specific languages; e.g.  
839.32.07 Flemish philology

### 8(091) HISTORY OF LITERATURE

8(A/Z.1/.7) *Special Auxiliary Numbers for classification of the works of specific authors*

*The works of specific authors are subdivided alphabetically by name. Detailed classification can then take place by the numbers ...1/...7, after, if necessary, the names of Places.*

8(...1) Complete works. *See also* 8.03; 8.09; 930.27.  
E.g. 840 (Molière 1) Complete works of Molière

8(...3) Selected works. Extracts  
E.g. 839.31 (Vondel 3) Selected works of Vondel

8(...4) Works by others concerning the author and his works

8(...5) Anonymous works which are attributed to a specific author

8(...6) Works in the name of an author which are attributed to others. E.g. 820 (Shakespeare 6) Works in Shakespeare's name attributed to others, e.g. Bacon

8(...7) Individual works of an author.  
E.g. 830 (Goethe 7) Faust

8-1/-9 *Special Auxiliary Numbers for kinds of literature. *See also* 03/05; 07/09; (02/09)*

8...-1 Poems. *See also* 245; 398.8; 784

-2 Dramatic works. Libretti. Scenarios.  
Theatrical works. *See also* 782/784; 792

-3 Tales. Novels. Narratives. Prose. *See also* 398; 92

-4 Sketches. Treatises. Essays

-5 Speeches. Discourses. *See also* 252; 340.96

-6 Epistles. Works in letter form. *See also* 652

-7 Satires. Humorous works. Parodies. Epigrams. *See also* 398

-8 Polygraphies. Dialogues. Conversations.  
Aphorisms. Anthologies, etc.

-9 Other kinds of literary productions: Cheap editions, literary criticisms, magazine contributions, pamphlets, memoirs. *See also* 22; 291.8; 8.09; 9

8.0	<i>Special Auxiliary Numbers for theory, science and technique of belles lettres</i>	82/89	<b>LITERATURE OF THE VARIOUS LANGUAGES.</b> <i>Subdivide like 42/49; e.g.</i>
.01	Literary aesthetics. <i>See also</i> 7.01, 18	820	English literature
.015	Schools, systems and theories	830	German literature
.1	Schools	839	Other Germanic literature
.11	Classicism. Neo-classicism	839.3	Dutch literature
.12	National schools	840	French literature
.13	Préciosité (France), Marinism (Italy), Gongorism (Spain), Euphuism (England)	850	Italian literature
		860	Spanish literature
.14	Romanticism. Neo-romanticism	869.0	Portuguese literature
.15	Parnassism. Art for Art's sake	87	Latin and Greek literature
.16	Naturalism. Realism	871	Latin literature
.19	Other schools. Impressionism, symbolism, expressionism, futurism, surrealism, dadaism, etc.	875	Greek literature
		88	Slavonic and Baltic literature
.03	Translations	882	Russian literature
.07	Philology in general. For optional use only. <i>Subdivide like</i> 41	884	Polish literature
.08	Literary technique. Versification. Rhetoric, etc.	89	Non-European literature. Oriental literature
.085	Oratory. <i>See also</i> 534.7; 612.78	891	Indian literature. Indo-Germanic literature
.09	Literary criticism	892	Semitic literature
.091	Comparative literature	892.4	Hebrew literature
		892.7	Arabic literature
		895.1	Chinese literature
		895.6	Japanese literature
		896	African literature
		899.2	Malayan and Javanese literature

## 9 GEOGRAPHY. BIOGRAPHY. HISTORY

*See also* 325; 525; 55; 56; 571/572; 581.9; 591.9

- 908 **HOMELAND SCIENCE**  
*Comprehensive studies on the history, geography, culture, economics, etc., of a country. Subdivide by means of (4/9)*

### 91 Geography

Description of travels.

*Geographical works in the proper sense of the term. Descriptions, explorations, accounts of travels, travel guides and works which deal with a country from various points of view.*

*Topographically limited data about a specific subject are classified with the appropriate subject by means of the Common Auxiliary Numbers of Place; e.g. 26(493) The Christian Church in Belgium.*

*For Physical Geography see* 551.4.

- 91-1/-9 **VARIOUS MORE DETAILED PLACE DESIGNATIONS.** *Subdivide like (-1/-9); e.g. 914.3-18 North-east Germany.*

- 910 **GENERAL QUESTIONS**
- .1 Geography as science. Rudiments. Theories. Methods.
  - .2 Art and technique of travel. *See also* 38; 65; 796.5
  - .4 Great travels
  - .41 Travels round the world
  - .42 Travels in various parts of the world
  - .45 Sea voyages. Shipwrecks

- 911 **HISTORICAL GEOGRAPHY IN GENERAL**  
*Developments and alterations of political frontiers. Subdivide by Common Auxiliary Numbers of Place and Time.*

- 912 **MAPS. CARTOGRAPHY.** Plans. Atlases.  
*See also* 526. *Subdivide by Common Auxiliary Numbers of Place and Time.*

- 913 **REGIONAL GEOGRAPHY IN GENERAL**
- .0 Geography of the whole world
  - .1 Geography of the ancient world in general
  - .2/.9 *Subdivide like* (32/39)

- 914/919 **MODERN GEOGRAPHY OF INDIVIDUAL COUNTRIES.** *Subdivide like* (4/9); *e.g.*

- 914 Geography of Europe
- .2 Geography of England
- .3 Geography of Germany
- .4 Geography of France
- 915 Geography of Asia
- 916 Geography of Africa
- 917 Geography of North America
- 918 Geography of South America
- 919 Geography of Oceania and the Polar Regions

### 92 Biography

*Individual biographies are classified alphabetically by proper names; e.g.*

92 (Thorbecke) *Biography of Thorbecke*

*Collective biographies are classified by means of Common Auxiliary Numbers of Place and Time; e.g.*

92(44) *Biographies of great Frenchmen.*

92(44)"17" *Biographies of great Frenchmen of the 18th Century.*

*Collective biographies of persons associated with the same science, art, etc., are enumerated by means of combination by : ; e.g.*

92:61 *Biographies of celebrated physicians.*

*References of various kinds which concern one person are classified according to their kind by means of the sign of Relation : after subdivision (A/Z); e.g.*

- 92 (Goethe):091 Manuscripts
- :704 Iconographs
- :73 Sculptures. Statues
- :741.5 Caricatures. Cartoons
- :76 Engravings
- :77 Photographs
- :784 Songs
- :8-1 Poems
- :8-2 Dramatic works

## 929 GENEALOGY. HERALDRY. ARMORIAL BEARINGS.

*The subdivision of all numbers takes place according to proper names and according to Place and Time.*

- 929.1/.5 **Genealogy.** *See also* 347.18
- .1 Genealogy in general
- .09 Family names. Christian names. Surnames. Pseudonyms
- .2 Family study
- .3 Registers of births, christenings, marriages and deaths. *See also* 351.755
- .5 Epitaphs
- 929.6/.7 **Heraldry. Blazonry**
- .6 Heraldry in general. *See also* 736; 759
- .7 Nobility. *For individual families see* 929.2
- .71 Orders and decorations. *See also* 351.856
- 929.9 **Flags. Standards**

## 93 History

*See also* 27; 3; 736/737; 756; 911; 92; 929

*Chronological subdivision of history takes place by means of the Common Auxiliary Numbers of Time. Subdivision according to sources can be indicated by means of the Common Auxiliary Numbers for Sources; e.g. 94"1618/1648"(093.2) Documents and memoranda concerning the Thirty Years' War.*

*The idea of history can be indicated outside of Section 9 by means of the Common Auxiliary Number (091); e.g. 51(091) History of mathematics.*

## 930 GENERAL QUESTIONS

- .1 Theory. Philosophy of history
- .2 Methodology
- .22 Theory of documents. *See also* 002
- .23 Historical criticism
- .24 Historical chronology. *See also* 529
- .25 Archivistics. *See also* 651.5
- .26 Archaeology. Antiquities. *See also* 571/572
- .27 Epigraphy and palaeography. *See also* 003; 417
- .271 Epigraphy
- .272 Palaeography. *See also* 56
- .8 General coincident historical considerations. Descriptive universal historical studies
- .85 History of civilization. *See also* 008
- .9 General history. World history in the restricted sense. (Chronological summation of facts)

## 931 ANCIENT HISTORY IN GENERAL

- .5 Ancient Chinese history

## 932/939 ANCIENT HISTORY OF THE VARIOUS INDIVIDUAL COUNTRIES. *Subdivide like* (32/39)

## 94/99 REGIONAL HISTORY. *Subdivide like* (4/9); e.g.

## 94 MODERN HISTORY IN GENERAL

- 940 European history
- .3 History of the World War I, 1914/1918
- .42 History of the World War II, 1939/1945
- 942 History of England
- 950 History of Asia
- 960 History of Africa
- 970 History of North America
- 980 History of South America
- 990 History of Oceania and the Polar regions



# INTRODUCTION TO AUXILIARY NUMBERS AND SYMBOLS

## Synopsis

<i>Symbols</i>	<i>Expressed as</i>	<i>Significance</i>	<i>Table</i>
+	Plus	Connection of non-consecutive numbers	(a)
/	Stroke	Connection of consecutive numbers	(a)
:	Colon	Relation	(b)
[ ]	Square brackets	Relation (subordinate)	(b)
=	Equals	Language	(c)
(0)	Brackets nought	Form	(d)
(1/9)	Brackets	Place	(e)
(=)	Brackets equals	Race and nationality	(f)
“ ”	Inverted commas	Time	(g)
A/Z	A to Z	Individual subdivision	(h)
-	Hyphen	Special analytical numbers	(i)
.00	Point double 0	Point of view	(j)
.0	Point nought	Special analytical numbers	(i)

## Arrangement

### Order of the individual parts of a compound decimal number

It is impossible to dictate hard and fast rules with regard to the sequence of components of compound decimal numbers.

The main number must be mentioned first, after which follows the auxiliary number which limits the range of the main number to the greatest degree. Then the less restrictive definitions come into account. Usually the arrangement of the auxiliary numbers occurs in the sequence: Point of view .00; Place (1/9); Time “ ”; Form (0); and Language =.

Examples:

- 675.003(492)(043) Thesis (043) on the leather industry 675 in Holland (492) from the economic point of view .003;
- 55(492)(021) Manual (021) on the geology 55 of Holland (492);
- 622(05) = 40“1934” File for the year 1934 of a published periodical (05) in French = 40 on mining 622

### Arrangement in a file of successive compound decimal numbers

For this arrangement in a file the following scheme obtains as a fixed rule:

<i>Symbol</i>	<i>Compound Decimal Number</i>	<i>Significance</i>
+	675 + 677	Leather and textile industry
/	675/677	Leather, paper and textile industry
Simple decimal number	675	Leather industry
:	675:338.97	Economic crisis in the leather industry
[ ]	675[37]	Instruction in leather work
=	675 = 20	Document in English on leather industry
(0)	675(021)	Handbook on leather industry
(1/9)	675(42)	The leather industry in England
“ ”	675“19”	The leather industry in the twentieth century
A/Z	675 Smith	Leather marked Smith
-	675-78	Protective arrangements in the leather industry
.00	675.007	Personnel in the leather industry
.0	675.02	The working of raw leather
.1/.9	675.3	Morocco leather

### Filing according to decimal classification

To facilitate the finding of decimally classified data the parts of compound numbers may be reversed, e.g. by filing the number 622(492) under 622, including it again in the reverse order—viz. (492)622—and filing it, therefore, also under (492). It is, however, recommended that the cards in question (which are often multiplied by means of carbon

paper) be made all alike, and that the part of the compound number for which the card answers should be underlined in a striking colour. The idea 622(492) will then be assimilated into the card index as follows: 622(492) and 622(492).

The same principle is to be followed with numbers joined by a colon.

## Preference Rule

In case of doubt main numbers are used for preference. Of the auxiliary numbers the special auxiliary numbers with .0 take precedence over those with -, and these again before the common auxiliary numbers for point of view with .00. Only afterwards do the other common auxiliary numbers come into consideration.

The order of preference is thus:

0/9; .01/.09; -1/-9; .001/.009; (0/9); “ ”; =

In case of doubt concerning the choice of numbers which belong to one and the same kind, choose the number which comes first in decimal order.

## Restraint in the Use of Analytical Subdivisions and Auxiliary Numbers

In practice it will be found that it is seldom necessary to use a great number of tables of auxiliary numbers for a particular card record or other documentary device. As a rule application of the sign of Relation : and the auxiliary numbers of place between parentheses is sufficient.

### Analytical Subdivisions

In many of the main classes, it is found convenient to provide a series of special analytical subdivisions which can be added to any member of the class, to either the class number or any of its normal subdivisions. Such analytical subdivisions, applicable only where specified under the notes at the head of each class, are provided by using the signs .0 (point 0) and - (hyphen). Examples will be found in various parts of the main classes, e.g. 621.3.

These subdivisions are in many cases suitable only for use in private files, because they tend to hide the information from the point of view they are intended to specify. Thus a group of subdivisions with .0 is seen at the commencement of 551.51 Mechanics and structure of the atmosphere, where 551.51.052 signifies Troposphere. If it is desired to specify the effect of the troposphere on terrestrial radiation,

the 052 may be added to the number for terrestrial radiation to form 551.521.2.052.

In this example the information about the troposphere is hidden under the number for terrestrial radiation. Therefore, in bibliographies intended for circulation, it is preferable to index the information with the aid of the colon as 551.521.2:551.51.052 so that entries may be filed automatically under both aspects of the subject.

The same objection applies to the use of the hyphen divisions in published bibliographies. Moreover, main divisions exist corresponding to many of the hyphen numbers, and these should be used in preference.

To avoid the use of symbols to the utmost, many auxiliary numbers can be replaced by the corresponding main numbers preceded by the sign of Relation :. The fact is that for the most important auxiliary numbers there exist in the nature of things corresponding main numbers which designate the auxiliary ideas in question as independent ideas, so that

338(44) Economic situation of France  
may be replaced by  
338:914.4 Economic situation of France

## Intercalation

The symbols which are finished off with a closing sign, such as brackets and inverted commas, can be intercalated, e.g.

338.5 Economic situation. Prices  
(42) England  
338(42)5 Economic situation in England.  
Prices  
54 Chemistry

061.2 Institutions  
061.2.02 Members of institutions  
54:061.2(492)02 Members of the Dutch Chemical  
Society

Intercalation, which makes possible any desired grouping, must, however, be avoided in the classification of data which are intended for exchange or publication and is therefore restricted to internal administration. See also page 111, Table (b).

## The Classification of a Document by means of Universal Decimal Classification

Before we attempt to classify any document by means of the Universal Decimal Classification, it is essential to analyse it and select the individual elementary ideas with

which it deals. Following is the outline of such an analysis, with an indication of the symbols that may be used for the classification of the ideas described in the document:

										Classification Symbol
Intrinsic content of idea	Object	Class ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	
Extrinsic scope	Determination of Place and Time	Individual	Name	..	..	..	..	..	..	

## Regrouping of Decimal Numbers according to the Special Point of View of an Organization

The Universal Decimal Classification attempts to give an objective systematic survey of the whole of human knowledge. In arranging the papers of a business or institution, it may be desirable, however, to classify the material from the more or less subjective viewpoints of the organization, using the auxiliary numbers that can be considered specifically for the particular organization.

If a business is employed technically in some way or other, then, for it, the common auxiliary subdivisions of point of view (designated by .00, see Table j) come first into consideration. For a corporate body concerned exclusively with arrangement and organization, the analytical subdivisions of corporate bodies (enumerated under 06.01/.09, see pp. 12-13) will suffice.

A combination of both may arise.

Hence we set to work as follows:

Suppose that we are organizing according to the Universal Decimal Classification our file for the waterworks business in Amsterdam (i.e. an institution technically employed) and wish to be able to submit sets of documents for the following:

- 022.5 Public reading room
- 651.5 Archives
- 659.24 Information Bureau

The organization itself should receive the decimal number 628.1(492.621).

The above-named sets of documents are then grouped together by the interpolation of the auxiliary number of point of view .005 Point of view of equipment and organization. The reading room should in this way receive the number 628.1(492.621).005:022.5.

For simplification, the decimal number which designates our particular business, 628.1(492.621), is then replaced by the standardized designation × (cross).

The set of documents for the reading room thus receives the designation × 005:022.5 and the other two sets of documents are respectively:

- × 005:651.5 Waterworks business. Amsterdam—Archives
- × 005:659.24 Waterworks business. Amsterdam—Information Bureau

By this means the information concerning organization and equipment for .005, 022.5, 651.5, 659.24 and possibly other subdivisions, is distributed in a simple way.

Alternatively the analytical subdivisions of 06 may be more appropriate.

If, for example, we want to classify the set of documents that concerns the fire and burglary insurance of property in the Industry Group, Retail Trade, the decimal numbers to be united are:

- 381.5 Retail trade
- 06.03 Movable possessions of institutions and associations
- 368.1 Fire and burglary insurance

Giving 381.5:06.03:368.1

Here in internal administration concerning the Industry Group, Retail Trade the compound number 381.5:06 is replaced by × and we get ×.03:368.1 as the designation for the set of documents in question.

# ABSTRACT OF THE AUXILIARY NUMBERS AND SYMBOLS

## (a) Symbols for Connection

### Connection of non-consecutive numbers

Non-consecutive numbers may be connected by means of the + sign, e.g.:

622 + 669 Mining and metallurgy  
(492 + 494) Holland and Switzerland

A reference classified in this way is filed under both numbers.

In uniting a series of numbers which indicate one and the same subject from different points of view, and denoted by different decimal numbers, we can, by way of simplification, correctly use as designation the number which comes first in the decimal sequence followed by the plus sign +, e.g.:

546.72 + Iron, all-embracing view (thus including mineralogy, ore, metallurgy, working up and application)

### Summation of consecutive numbers

A series of consecutive numbers can be designated by noting down the first and last only and separating these by the sign /, e.g.:

591.11/.13 Blood, respiration and nutrition of animals

In order to effect the arrangement of a subject classified in this way under the various specific numbers, designation in full of the remaining numbers 591.11 + 591.12 + 591.13 is to be preferred.

## (b) Designation of Relation

To express relationship between various ideas we use the sign of Relation : which is placed between the numbers representing these ideas, e.g.:

31 Statistics. 63 Agriculture  
31:63 Agricultural statistics.  
341.63 Arbitration. (44) France. (45) Italy  
341.63(44:45) Arbitration between France and Italy

If in doubt whether use of the sign : is to be preferred to that of the sign +, choose the : as the connecting symbol.

The connection of two numbers by means of the sign of Relation : points to a relation between co-ordinate ideas. It is possible also to indicate a relationship of subordination. In this the further distinction must be made as to whether the idea to be subordinated is to be regarded as subsidiary to the main idea, or whether rather it represents a specific form, which the main number is needed to express. In the former case one uses the symbol [...], in the second case

(0:...). For the second case, see page 112, (d) Auxiliary numbers of Form.

If in the classification of agricultural statistics one wants to designate the idea statistics as a subsidiary idea one writes thus: 63[31].

The symbol [...] lends itself especially to intercalation, e.g.:

620.174 Research in materials. Bending tests  
669.14 Steel  
620.1[669.14]74 Steel research. Bending tests

When the square brackets are difficult to reproduce on the typewriter they can be replaced by reduplicated round brackets, thus 63((31)).

Be it noted that these are variations of a subtle character, and ought preferably to be avoided in printed bibliographies or references for exchange. Thus, in general, preference is given to a simple application of the sign of Relation :.

## (c) Auxiliary Numbers of Language

### Note:

The common auxiliary numbers of Language serve to designate the language in which the document is written. Their subdivision is the same as that of sections 4 and 8.

The use of the common auxiliary numbers of Language can only be recommended for very minute subdivision. Their application will be confined mainly to the following:

(a) Simultaneous designation of an idea according to Form and Language, e.g.:

61(03) = 20 Medical encyclopaedia in English

(b) Distinction between translations of specific works, e.g. the Bible, the Koran, etc., e.g.:

22.05 = 40 French translation of the Bible

(c) Composition with the idea expressed by a main division, which is also regulated according to language. In this case the auxiliary number of Language is placed first, and to avoid errors is separated from the main number by a second = sign, e.g.:

= 30 = 08 Collected works in German  
= 40 = 08 Collected works in French

### Subdivision

= 00 General linguistic point of view. Polyglots  
= 20 English  
= 30 German  
= 392 Frisian  
= 393 Dutch  
= 393.2 Flemish  
= 393.6 Afrikaans  
= 395 Scandinavian  
= 395.9 Icelandic  
= 396 Norwegian  
= 397 Swedish  
= 398 Danish  
= 40 French  
= 40(493) Walloon  
= 490 Provençal  
= 499 Catalan  
= 50 Italian  
= 59 Rumanian  
= 60 Spanish  
= 69 Portuguese  
= 71 Latin  
= 75 Ancient Greek

= 774	Modern Greek
= 81	Slavonic in general
= 82	Russian
= 826	White Russian
= 83	Ukrainian
= 84	Polish
= 85	Czech
= 854	Slovakian
= 861	Serbian
= 862	Croatian
= 863	Slovene
= 867	Bulgarian
= 88	Baltic
= 882	Lithuanian
= 883	Lettish
= 9	Oriental languages. Remaining languages
= 91	Indo-Germanic languages
= 912	Sanskrit
= 913	Pali. Prakrit

= 914	Modern Hindu languages
= 915	Iranian. Persian
= 916	Celtic languages. Irish
= 924	Hebrew
= 927	Arabic
= 93	Hamitic. Egyptian. Coptic
= 94	Turanian
= 943.5	Turkish
= 945.11	Hungarian
= 945.41	Finnish
= 95	Asiatic languages
= 951	Chinese
= 956	Japanese
= 96	African languages. (Negro languages)
= 97	North American languages. (Indian languages)
= 98	South American languages. (Indian languages)
= 992	Indonesian languages
= 992.21	Malayan
= 992.22	Javanese

## (d) Auxiliary Numbers of Form

*Note:*

*The common auxiliary numbers of Form (0...) serve to distinguish the form of the idea which is expressed by the main number, e.g.:*

58(021) *Handbook of Botany*

*Main numbers, preceded by 0:, may be used to express the form of a document by enclosing them in ( ), e.g.:*

091 *Manuscripts*

(0:091) *Material in the form of manuscript*

*The employment of auxiliary numbers may be avoided when appropriate numbers are provided in the main tables.*

(02)	<b>Books.</b> Systematically classified data in book form
(021)	Comprehensive works. Handbooks
(022)	Books of moderate scope
(023)	Books of limited scope. Popular manuals
(024)	Books for specific circles of users
(024.7)	Children's books. <i>See also</i> 087.5
(025)	Questions and answers. Catechisms
(03)	<b>Reference books.</b> Alphabetically classified data in book form. Encyclopaedias. Lexicons. Dictionaries
(031)	Encyclopaedias and dictionaries of large scope
(032)	Encyclopaedias and dictionaries of medium scope
(033)	Encyclopaedias and dictionaries of limited scope
(038)	Language dictionaries. Technical dictionaries
(04)	<b>Brochures. Lectures. Academic theses. Letters. Pamphlets</b>
(041)	Brochures. Pamphlets. Reprints
(042)	Addresses. Lectures. Speeches
(043)	Academic theses. Theses. Dissertations
(044)	Letters. Open letters. Circulars. Circular letters
(045)	Articles in periodicals. Separated portions of books
(046)	Newspaper articles
(047)	Short notices. Information. Synopses. Reports
(048.1)	Bibliographical lists. Reviews. Book discussion. <i>See also</i> 019
(048.6)	Abridged editions
(048.7)	Commentaries
(049)	Documents of various forms. Agenda. Resolutions. Proclamations. Messages. Controversial writings. Interviews. Petitions
(05)	<b>Periodicals. Serial works. Documents published periodically</b>
(058)	Year books. Directories

(058.7)	Directories
(059)	Almanacs. Calendars. Diaries
(06)	<b>Publications of corporations, societies, associations and other institutions</b> <i>Subdivide like</i> 061
(07)	<b>Educational and study books</b>
(075)	School books. Textbooks
(075.2)	Textbooks for elementary education
(075.3)	Textbooks for intermediate education
(075.4)	Textbooks for self-instruction
(075.5)	School programmes. Curricula
(075.6)	Textbooks for women and girls
(075.7)	Textbooks with a specifically religious, philosophical or ethical tendency
(075.8)	Textbooks for university and higher education
(076)	Exercises. Questions. Solutions. Answers
(076.1)	Exercises and questions. Examination questions
(076.2)	Solutions and answers
(076.5)	Practical exercises
(078)	Other documents for education
(079)	Prize competitions. Competition notices and reports. Questionnaires. Certificates. Study reports
(079.1)	Public competitions and tests
(079.2)	Distinctions. Rewards. Prizes. Titles. Certificates
(079.3)	Reports of expeditions and travels
(079.5)	Questionnaires for investigations. Ballots
(08)	<b>Polygraphs. Collected works. Tables. Miscellanies</b>
(081)	Collected works of specific authors
(082)	Collective works of different authors
(082.1)	Collective works of different authors on a specific subject
(082.2)	Anthologies. Selections. Quotations
(083)	Formulae. Numerical tables. Schedules. Lists. Recipes. Reckoners. Estimates
(083.1)	Recipes. Practical advice. Prescriptions
(083.2)	Printed forms. Registers
(083.3)	Tables of mathematical formulae. Measures. Calculations. Units
(083.4)	Various schedules and tables. Survey tables. Statistical documents
(083.5)	Numerical tables. Conversion tables
(083.6)	Tables with other than numerical data
(083.7)	Definitions. Nomenclature. Standards. Specifications

- 083.8) Lists. Inventories. Catalogues of articles  
 083.9) Plans. Projects. Building and industrial instructions  
 (084) Graphic representations. Diagrams. Sketches.  
 Films. Atlases. Maps. Designs  
 (084.1) Illustrations. Drawings. Photographs  
 (084.2) Schematic representations. Diagrams. Nomographs  
 (084.3) Maps. Plans  
 (084.4) Atlases  
 (084.5) Pictorial Posters  
 (085) Publications of industrial and commercial undertakings. Catalogues. Prospectuses. Circulars. Advertisements. Price lists. Tariffs. Printed advertising matter  
 (086) Documents characterized by dimension and form  
 (086.1) Mounted documents: samples, stamps  
 (086.2) Photographic copies  
 (086.3) Microscopic specimens and slides  
 (086.4) Globes and relief maps  
 (086.5) Three-dimensional representations. Models  
 (086.6) Museum objects. Specimens and samples  
 (086.7) Gramophone records. Phonograms  
 (087) Documents according to origin and destination  
 (087.1) Documents according to origin  
 (087.2) Documents destined for specific categories of persons  
 (087.4) Contracts. Agreements  
 (088) Various documents  
 (088.3) Miscellanies. Curiosa. Anecdotes. Paradoxes, etc.

- (088.5) Enigmas. Practical jokes. Riddles. Scientific, artistic and literary deceptions  
 (088.7) Factory and trade marks  
 (088.8) Letters patent  
 (089) Various collected works. Serial works  
 (089.1) Artificially formed collections  
 (089.2) Works published in parts. Serials

#### (09) Sources of historical and authoritative data

*This section comprises exclusively works which handle the specific subject from the point of view of origin, development and regulation; e.g.*  
 53(091) *History of physics*

- (091) Presentation in historical form  
 (092) Presentation in biographical form  
 (093) Historical sources. Documents. Monuments  
 (094) Authoritative sources. Laws. Byelaws  
 (094.1) Edicts. Decrees  
 (094.2) International agreements and treaties  
 (094.4) Law books  
 (094.46) Commentated laws  
 (094.5) Laws. Orders in Council. General Government measures  
 (094.7) Regulations. Legal sources on the basis of autonomy. Provincial and municipal byelaws. Orders. Administrative measures  
 (094.8) Legal sources emanating from courts of justice. Test cases  
 (094.9) Jurisprudence. Common law  
 (095) Antique and ancient legal sources

## (e) Auxiliary Numbers of Place

### Note:

The common auxiliary numbers of Place are used to indicate the geographical situation of the ideas characterized by the main number, e.g.:

- 347.77(492) Dutch patent law  
 385(43) German railways

They can also serve as subdivisions in which the geographical importance is paramount. The auxiliary number of Place then stands as the main number, e.g.:

- (492)347.77 Holland, Patent law  
 (43)385 Germany, Railways

Auxiliary numbers of Place may be added to any main number. Cross references, by putting the auxiliary numbers also after the first two figures of the main number, are recommended.

E.g.	I Special entry	II Cross reference
	338.97(45)	33(45):338.97
	621.32(42)	62(42):621.32
	551.23(64)	55(64):551.23
	583.439(741)	58(741):582.439

### (-) Various local limitations

The subdivisions by means of (-) are applied exclusively to the subdivisions of (1/9), e.g.: (1-2) Towns in general; (493-3) Belgian provinces.

- (-0) Zones  
 (-04) Limiting zones. Boundaries  
 (-07) Military zones  
 (-074) Occupied territory  
 (-1) Orientation. Points of the compass  
 (-11) East  
 (-13) South  
 (-15) West

- (-17) North  
 (-19) Relative position  
 (-191) Centre. Middle  
 (-192) Periphery  
 (-194) Proximity  
 (-2) Municipalities. Towns. Villages. Parishes  
 (-3) Provinces. Government regions. Counties. Departments  
 (-4) Countries. States. Commonwealths  
 (-44) Empires  
 (-5) Colonies. Concessions. Mandated territories  
 (-6) Groups of states. Unions. International communities  
 (-65) Grouping in wartime  
 (-651) Belligerents  
 (-652) Neutrals  
 (-7) Sphere, domain of private activity. Working territory of a company  
 (-8) Place of origin, of destination  
 (-82) Origin  
 (-85) Destination

### (1) Designation of place in general.

- (100) Universality in relation to place. The whole universe. The whole world. International. The countries in general

### (2) Physical designation of place

- (21) Continents. Mainland. Zones  
 (211) Cold regions  
 (213) Tropical regions  
 (22) Islands  
 (23) Mountains  
 (234) Mountains of Europe  
 (234.12) Pyrenees  
 (234.27) Vosges  
 (234.28) Ardennes

(234.3)	Alps	(395)	North-Western Asia. Colchis
(234.41)	Mountains of Italy. Apennines	(396)	Central Asia. Bactria. Herkania
(234.425)	Mountains of Central Greece	(397)	Africa. Numidia. Carthage
(234.5)	Mountains of Central Europe	(398)	South-Eastern Europe. Dacia. Illyria
(234.6)	Mountains of Great Britain	(399)	Other regions. Ancient America
(234.7)	Mountains of Scandinavia		
(234.8)	Mountains of Russia	(4/9)	<b>Places in the Modern World</b>
(235)	Mountains of Asia		
(235.1)	Mountains of Asia Minor	(4)	<b>Europe</b>
(235.2)	Mountains of Central Asia	(41)	Great Britain and Northern Ireland and the British Commonwealth and Empire
(235.243)	Himalayas	(410)	United Kingdom of Great Britain and Northern Ireland
(235.3)	Mountains of Northern Asia	(411)	Scotland
(235.4)	Mountains of Eastern Asia	(415)	Ireland in general
(235.5)	Mountains of Southern Asia	(416)	Northern Ireland
(236)	Mountains of Africa	(417)	Eire. Irish Free State
(237)	Mountains of North America	(42)	England
(237.1)	Western section	(429)	Wales
(237.2)	Eastern section	(43)	Germany
(238)	Mountains of South America	(435.9)	Luxemburg
(239)	Mountains of Oceania, in the Arctic and Antarctic	(436)	Austria
(24)	Interior of the Earth. Caves. Grottoes	(437)	Czechoslovakia
(25)	Plains. Deserts	(438)	Poland
(26)	Oceans. Seas. At sea	(439.1)	Hungary
(261)	North Atlantic Ocean	(44)	France
(262)	Mediterranean Sea	(45)	Italy
(263)	Tropical Atlantic. Gulf of Mexico	(46)	Spain
(264)	South Atlantic Ocean. Gulf of Guinea	(469)	Portugal
(265)	Western Pacific	(47)	Russia. U.S.S.R.
(266)	Eastern Pacific	(470)	Soviet Russia proper. R.S.F.S.R.
(267)	Indian Ocean	(471.1)	Finland
(268)	Arctic Ocean	(474)	Baltic States
(269)	Antarctic Ocean	(48)	Scandinavia
(27)	Ocean Currents. Gulf Stream	(481)	Norway
(28)	Surface waters. Fresh water	(485)	Sweden
(282)	Water courses	(489)	Denmark
(282.1)	Springs. Natural wells. Underground water	(491)	Iceland. Faroe Islands
(282.2)	Rivers. Streams. <i>Subdivide like</i> (4/9)	(492)	The Netherlands (Holland)
(282.24)	European rivers	(493)	Belgium
(282.25)	Rivers of Asia	(494)	Switzerland
(282.26)	Rivers of Africa	(495)	Greece
(282.27)	Rivers of North America	(496)	Turkey in Europe
(282.28)	Rivers of South America	(496.5)	Albania
(282.29)	Rivers of Oceania	(497)	The Balkan States in general
(282.293.1)	Rivers of New Zealand	(497.1)	Yugoslavia
(282.294)	Rivers of Australia	(497.2)	Bulgaria
(282.3)	Waterfalls and rapids. Cataracts. Cascades	(498)	Rumania
(282.4)	River basins. River systems. Drainage areas. Watersheds	(499)	The Greek Archipelago
(282.5)	Navigation routes. Artificial channels. Canals	(5)	<b>Asia</b>
(282.6)	Estuaries. Deltas	(51)	China
(285)	Lakes. Swamps	(515)	Tibet
		(516)	Chinese Turkestan
		(517)	Mongolia
(3)	<b>Places of the Ancient World</b>	(518)	Manchukuo
(31)	Ancient China. Ancient Japan	(519)	Korea
(32)	Ancient Egypt	(52)	Japan
(33)	Ancient Palestine. Judaea	(53)	Arabia
(35)	Medo-Persia. Chaldea. Assyria. Babylonia. Mesopotamia	(54)	India. Ceylon
(36)	Countries of the so-called Barbarians	(55)	Persia. Iran
(363)	Germanic countries	(56)	Turkey in Asia. Asia Minor
(364)	Gaul	(564.3)	Cyprus
(366)	Britain	(566)	Armenia. Kurdistan
(37)	Ancient Rome. Italia	(567)	Irak. Mesopotamia
(38)	Ancient Greece	(569)	Syria. Palestine
(391)	Greek Archipelago. Samos. Rhodes	(569.1)	Syria
(392)	Western Asia Minor. Troy. Ionia	(569.4)	Palestine
(393)	Eastern Asia Minor	(569.5)	Transjordan
(394)	Syria and Arabia, Capadocia. Cyprus	(57)	Siberia
		(58)	Central Asia
		(581)	Afghanistan

(59)	Indo-China	(82)	Argentina
(591)	Burma	(83)	Chile
(593)	Siam, Thailand	(84)	Bolivia
(596/599)	French Indo-China	(85)	Peru
(6)	<b>Africa</b>	(86)	Colombia, Panama, Ecuador
(61)	Northern Africa, Berber States	(87)	Venezuela
(62)	Egypt	(881)	British Guiana
(63)	Abyssinia, Ethiopia	(882)	French Guiana
(635)	Eritrea	(883)	Dutch Guiana (Surinam)
(64)	Morocco	(892)	Paraguay
(65)	Algeria	(899)	Uruguay
(66)	North Central Africa		
(661)	Sahara	(9)	<b>Oceania</b>
(67)	South Central Africa	(91)	Malay Archipelago, Indonesia, The East Indies
(674)	Central Africa	(910)	Netherlands Indies in general
(675)	Belgian Congo	(911)	Borneo and surrounding islands
(676)	British East Africa, Kenya, Uganda	(912)	Celebes and surrounding islands
(677)	Somaliland	(913)	Molucca Islands
(678)	Zanzibar, Tanganyika territory	(914)	Philippine Islands
(68)	South Africa	(92)	The East Indies
(68.01)	Union of South Africa, (Transvaal, Natal, Orange Free State, Cape of Good Hope)	(921)	Sumatra
(688)	South-West Africa	(922)	Java
(689)	Rhodesia, Nyasaland	(923)	Lesser East Indian Islands
(691)	Madagascar	(93/97)	Remainder of Oceania
(7/8)	<b>America</b>	(93)	Australasia, Melanesia
(7)	North America	(931)	New Zealand
(71)	Canada	(94)	Australia
(712)	North-West Territories	(946)	Tasmania
(718)	Newfoundland	(95)	New Guinea
(72)	Mexico	(96)	Polynesia
(728)	Central America	(969)	Hawaiian or Sandwich Islands
(729)	West Indies	(97)	Scattered islands
(73)	United States of America (in general)	(98/99)	Polar regions
(798)	Alaska	(98)	Arctic regions
(8)	<b>South America</b>	(988)	Greenland
(81)	Brazil	(99)	Antarctic regions

## (f) Auxiliary Numbers of Race and Nationality

*Note:*

*These common subdivisions of Race are borrowed from the auxiliary numbers of Language and therefore agree in their subdivision. They serve to indicate the connection with race and nationality of the idea indicated by the preceding main number. Their subdivision, in so far as it is not here indicated, is like that of the common auxiliary numbers of Language and sections 4 and 8.*

(= 1-5)	Colonial races and nationalities
(= 1-6)	Half-castes
(= 1.100)	Cosmopolitans
(= 1.2)	Peoples of specific geographical regions
	Subdivide like (2); e.g. (= 1.22)
	Islanders

(= 1.3)	Peoples of specific countries of antiquity
	Subdivide like (3); e.g. (= 1.37) <i>Ancient Romans</i>
(= 1.4/.9)	Peoples of specific countries
	Subdivide like (4/9); e.g. (= 1.493) <i>Belgians</i> ; (= 1.494 = 30) <i>German Swiss</i>
(= 2)	White races in general
(= 20)	Anglo-Saxons
(= 3)	Germanic races
(= 4)	Latin races
(= 8)	Slavs
(= 91)	Indo-Germanic races. Aryans
(= 92)	Semites
(= 95)	Mongols
(= 96)	Negroes
(= 99)	Australian aboriginals. Indonesians

## (g) Auxiliary Numbers of Time

*Note:*

*The common auxiliary numbers of Time are formed by the time designations according to the customary reckoning of time placed within inverted commas "...", within which the following order: year, month, day, must be observed.*

*Thus: "1931.06.05" 5th June, 1931.*

*To indicate centuries or decades 2 or 3 numerals respectively are used:*

"03"	4th century
"19"	20th century
"191"	Period 1910/1919

*A period which embraces several centuries or several decades is indicated by the opening and closing points of time:*

"16/18" 17th to 19th centuries



The years before the birth of Christ are given the time designation — (minus sign):

“— 64” In the year 64 B.C.

If it must be explicitly recorded that a designation is associated with the Christian era, the sign + (plus sign) is placed before the time:

“+ 0090” In the year A.D. 90

The common auxiliary numbers of Time always relate to the ideas indicated by the main number itself and not to date of publication or edition.

#### Subdivision

“—” Antiquity

“+” Christian era in general

“04/14”	Middle ages
“15/18”	Modern times
“19”	Contemporary time
“3/7”	General ideas of time
“3”	General periods of time
“31”	Past, present, future
“32”	Seasons. Times of year
“33”	Months of the year
“36”	Times of distress. Wartime. Times of crisis
“37”	Time, business technique considerations. Working time
“4”	Period (hours, days, months, years, etc.)
“5”	Periodicity
“6”	Time limits
“7”	Phenomenological divisions of time (succession, simultaneity, etc.)

## (h) Alphabetical Subdivision and Subdivision by Consecutive Numbers

The Universal Decimal Classification gives in principle a classification of subjects. The individuals amongst these subjects are indicated by alphabetical subdivision; e.g.

92 S	or	} Biography of Schiller
92 Schil	or	
92 Schiller		

Sometimes we want to make use of consecutive numeration. In that case the consecutive number is preceded by the designation “No.”; e.g.

656.4.02(492.621)No.12 Line 12 of the Amsterdam tramway

## (i) Special Analytical Numbers

In specific special fields constantly recurring ideas such as general symptoms, machine elements and the like, may be indicated by special auxiliary numbers which are joined to the main number either by the sign — or by .0.

The special auxiliary numbers which are designated by — serve customarily for general tendencies, and find application in more than one special field, while the .0 numbers are applied more usually to one single field; e.g.

3	Social sciences
3-055.2	Women
313.11	Accident statistics
313.11-055.2	Accident statistics relating to women
331.64	Labour service
331.64-055.2	Labour service for women
629.1	Means of transport

629.1.018.3	Signalling devices for vehicles and vessels
629.118	Bicycles
629.118.018.3	Signalling devices for bicycles
629.13	Aircraft
629.135	Aeroplanes
629.13.015	Undercarriages for aircraft
629.135.015	Aeroplane undercarriages
629.1-59	Brakes on means of transport
629.135.015.12-59	Brakes on aeroplane undercarriages

In bibliographies intended for circulation, care should be taken to avoid hiding information by the use of special auxiliary numbers. Usually it is preferable to use them as a whole rather than analytically. E.g. Signalling devices for bicycles would preferably be indicated by 629.118:629.1.018.3.

## (j) Auxiliary Numbers for Point of View

Note:

The common auxiliary numbers for Point of View are formed by means of the symbol .00; e.g.

.003	Economic point of view
677.46.003	The economic aspect of the artificial silk industry

These auxiliary numbers can in particular be employed usefully in subdividing records according to a special view-point. On this see the Introduction to the Auxiliary Numbers and Symbols, p. 110: Regrouping of decimal numbers according to the point of view of the organization.

.001	Theoretical point of view
	Idea. Aim. Summary descriptions. Research in relation to manufacture (making), use or reproduction of the object.
.1	Pure theory. Definition. Designs. Plans. Programmes
.2	Investigations concerning realization. Conditions. Calculations

.001.3	Definition of the object
.4	Tests. See also 620.1; 543/545; 624.058
.41	Tests in putting into operation
.42	Tests during working
.43	Tests after modification or improvement
.5	Research. Scientific and technical investigation. Trial by means of models, etc.
.6	Practical development of results of research
.7	Amendment. Fresh examination. Reorganizations. Reform
.8	Comment. Appraisal. Extension of scope. Applicability

.002	Point of view of realization
	Execution. Construction. Production. Raw materials. Processing
.1	Commencing phases. Manner of execution. Preparation
.2	Manufacture. Construction. Production. Processes
.3	Raw materials. Main components

- .002.4 Auxiliary materials. Additional components (Fuel. Plaster. Paint. Lubricants, etc.)
- .5 Plant, machines and apparatus for production and exploitation
- .51 Large plant. Apparatus
- .52 Auxiliary machines and auxiliary apparatus. Means of conveyance
- .53 Processing machines. *See also* 621.9
- .54 Tools. Implements
- .56 Precision instruments
- .6 Products. Intermediate products. By-products. Waste. Refuse
- .61 Generalities. Origin. Character
- .62 Intermediate products
- .63 Crude products
- .64 Finished, refined products
- .65 Superfine products
- .67 By-products
- .68 Refuse. Residue. Waste
- .69 Substitutes
- .7 Accessory work
- .71 Transport. Carriage
- .72 Mounting. Assembling
- .73 Anchorage. Foundation. Fixing
- .003 **Economic and financial point of view**
  - .1 Economic point of view
  - .2 Financial point of view
  - .3 Accountancy point of view
- .004 **Use and application point of view**
  - Accurate definition. Manner of use. Mechanical efficiency. Potentiality of application
  - .1 Use. Manner of operation. Detailed description. Technical efficiency
  - .11 Detailed description. Appearance
  - .12 Properties
  - .13 Means of operation
  - .14 Use. Application
  - .15 Technical efficiency
  - .16 Loss in materials
  - .17 Capacity. Production capacity
  - .18 Saving in materials
  - .2 Directions for use and working. Servicing instructions. Correct handling
  - .3 Putting up. Transport. Packing
  - .4 Preservation. Storage
  - .5 Maintenance. Care. Control. Cleaning
  - .6 Wear and tear. Defects. Damage. Repairs and alterations
  - .62 Wear and tear. Obsolescence
  - .63 Incidental faults and defects
  - .64 Faults. Defects
  - .67 Repairs. Reconditioning
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